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BUREAU OF LABOR STATISTICS,
SPRINGFIELD, ILL.

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TWENTY-SECOND ANNUAL COAL REPORT

OF THE

Illinois Bureau of Labor Statistics

1903

42438

ALSO THE

FIFTH ANNUAL REPORT

OF THE

Illinois Free Employment Offices

FOR THE

YEAR ENDED OCT. 1, 1903

DAVID ROSS, *Secretary*, Springfield.



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STATE OF ILLINOIS,
OFFICE OF THE BUREAU OF LABOR STATISTICS,
SPRINGFIELD, Jan. 1, 1904.

HON. RICHARD YATES, *Governor of Illinois*:

SIR:—I have the honor, on behalf of the Board of Commissioners of Labor, to submit herewith the twenty-second annual report of the coal industry of the State for the year ended July 1, 1903, together with the fifth annual report of the Illinois Free Employment offices.

Very respectfully,

DAVID ROSS,

Secretary.

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TWENTY-SECOND ANNUAL REPORT.

STATISTICS OF COAL IN ILLINOIS FOR THE YEAR ENDED JUNE 30, 1903.

Practically the same tendencies that have marked the recent growth of our manufacturing interests are revealed in the development of the coal mining industry. It would be strange, indeed, were this not true when we consider the essential dependence of the workshops of the nation upon the sources of furnishing its fuel. Coal has been defined as "unburned fire," and that country (like our own) whose mountains and plains cover almost an illimitable supply, is destined sooner or later to become the leader in all the world's affairs. To-day the United States stands at the head of the manufacturing nations, a position which it has reached largely through the utilization of our vast coal deposits. It is a singular fact that the year in which England surrendered first place as a manufacturing power, put the United States in the lead as a coal producer. In the great struggle for international trade, England is hampered, not because of her fiscal policy, or, as has been alleged, through the restrictions imposed by trade unions, but on account of the ever increasing expense of producing the fuel necessary to operate her mills and factories.

Industrial supremacy requires not only *plenty* of coal, but that it be supplied at the lowest possible price. Fortunately this nation is in a position to meet each of these conditions, which explains in a measure the fact that, while representing in point of population but 5 per cent of the earth's inhabitants, nearly 35 per cent of all the manufactured goods used by a billion and a half of people are now made here. It is not to be wondered at that the plans and purposes of this republic should cause some uneasiness in every European council.

It must be apparent to the average observer that the simple methods of a quarter of a century ago would be entirely inadequate to meet present demands.

Industry has been reorganized on a broader and stronger basis. Vast capital through corporate enterprise has been successfully operated. In no other way could the present and prospective industrial situation be controlled. American enterprise has proved equal to every emergency. With every additional demand has come the means to meet it. It may surprise some to be informed that the large industrial concerns of the country have not, to the extent that many believe, destroyed or absorbed the small producers. The great institutions of our land, whose power the thoughtless fear, have come in obedience to extraordinary demands; demands which the smaller class of so-called competitors would be powerless to supply. This statement is fully confirmed in the history of Illinois coal mining. With increasing demands came greater concentration of capital and consequently better equipment.

The controlling purpose of modern mine owners is to produce the greatest quantity of coal in the shortest space of time. To this end every conceivable device calculated to expedite production and minimize cost has been adopted. To a very great extent machines have been substituted for men. Much of present day progress is directly attributable to the enterprise of the men charged with the management of great coal interests. So broad is the plan on which the industry is now manipulated that in order to equip an ordinary mine, a capital of at least \$100,000 is required. Mines have recently been sunk in this State representing an investment of nearly double that sum. This class of mines embrace all the latest improvements; first motion engines, box car loaders, steel towers, electric motors, coal washers, detaching-hooks for hoisting cables, and in the thicker seams, machines for undercutting and drilling coal; while even the job of the little trapper boy is threatened on account of the installation of automatic trap doors. The purpose of the present system is not alone to meet the pressure of modern trade demands, but also to more thoroughly protect the interest of human life. Mechanism is the order of the age. The highest forms of civilized society are invariably found in the machine-using nations. Workers for wages should be the last to object, as it is only at the few points of our earth where machinery is applied to industry that the compensation for human

toil rises above the simple wants of animal life. Contention should be directed, not against the machine, but in favor of a more equitable division of its profits and the benefits it confers.

During the 18 years that the writer worked in the mines of this State, he always felt that the man who invented a machine to take his job would have justly earned his gratitude as well. It is most gratifying to note that the old time opposition of labor unions to the introduction of labor saving machines is fast disappearing. But it may be asked, in what way does this evolution affect the small operator? His functions have in no way been interfered with. He is still doing business at the side station or on the country by-road, meeting as best he can the limited demands made upon his primitive plant and supplying the wants of a class of people which the greater concerns are unable to reach. In the present report of the coal industry, out of a total of 933 mines and openings of all kinds in the State, 580, or nearly two-thirds, belong in the non-shipping or local group. From a total production of nearly 35,000,000 tons, the aggregate product of the 580 local mines was less than one and a half million tons. While this is but a small per cent of the total product, it would appear that the small operator is still doing business and in no serious danger of losing his occupation. The fact is still further emphasized in our statistics of manufactures. Of the 45,475 manufacturing establishments in this State, as shown by the last census, 26,399, or 58.1 per cent, were shops whose products represented a value of less than \$500. More than 70 per cent of all our manufacturing plants employ less than 40 men each. That class of our citizens who have suffered all the spasm of populistic nightmare, fearing the ultimate results of corporate enterprise in this country, should take renewed courage from the facts these figures reveal. Pessimistic protests will avail nothing. Declamation, while it may furnish exercise for the lungs, is powerless to interrupt, much less stop, the current of economic tendencies. Opportunities for individual effort will continue to enlarge, but it is upon the great combinations, both of labor and capital, that we must depend to maintain our industrial supremacy.

In the matter of coal production, Illinois is second only to Pennsylvania, while in respect to development, management and equipment of its mining properties, it stands in a class of its own. Its history is a fair reflection of the wonderful progress made along many lines

during recent years. Proud as we all might be of present accomplishments, there is reason for the hope that, in the absence of any serious industrial depression, the immediate future will register a still more significant advance.

The following summary presents the salient totals of the report for this year:

SUMMARY FOR THE YEAR ENDED JUNE 30, 1903.

Number of counties producing coal.....	53
Number of mines and openings of all kinds	933
New mines, or old mines reopened during the year	109
Mines closed or abandoned since last report.....	91
Total output of all mines in tons of 2,000 pounds.....	34,955,400
Number of shipping or commercial mines.	353
Total output of shipping mines, tons.....	33,676,537
Number of mines in local trade only.....	580
Output of local mines, tons.....	1,278,863
Total tons of mine run coal.....	10,373,098
Total tons of lump coal.....	15,874,509
Total tons of egg coal	995,163
Total tons of nut coal	1,755,704
Total tons of pea coal	4,540,421
Total tons of slack coal	1,416,495
Total tons shipped from the mines.....	30,084,387
Tons supplied to locomotives at the mines.....	1,117,243
Tons sold to local trade.....	2,316,814
Tons consumed (or wasted) at the plant.....	1,436,956
Average days of active operation for shipping mines	222
Average days of active operation for all mines	191
Average value per ton, all grades, at the mines	\$1 05
Average value per ton of mine run coal at the mines.....	\$1 00
Average value per ton of lump coal at the mines.....	\$1 35
Average value per ton of egg coal at the mine.....	\$1 27
Average value per ton of nut coal at the mine.....	\$.0948
Average value per ton of pea or screenings coal at the mine.....	\$0 53
Average value per ton of slack coal at the mine.....	\$0 32
Aggregate home value of total product.....	\$36,695,972
Number of mines in which mining machines are used.....	68
Number of mining machines in use	522
Number of tons undercut by machines.....	7,646,777
Number of tons mined by hand	27,115,510
Average number of miners employed during the year.....	34,904
Average number of other employes under ground	8,523
Average number of boys employed under ground.....	1,276
Average number of employes above ground.....	5,111
Total employes	49,814
Number of men at work under ground.....	44,703
Number at work on surface	5,111
Average price paid per gross ton for hand mining, shipping mines	\$.0564
Average price paid per gross ton for machine mining.....	\$.0434
Number of kegs of powder used for blasting coal.....	806,334
Number of kegs of powder used for other purposes	4,527
Number of men accidentally killed.....	156
Number killed inside of the mines.....	155
Number killed outside of the mines	1
Number of wives made widows	93
Number of children left fatherless	286
Number of men injured so as to lose a month or more of time.....	410
Number of gross tons mined to each life lost	224,118

Number of employ��s to each life lost.....	320
Number of deaths per 1,000 employed.....	3.13
Number of gross tons mined to each man injured.....	85,274
Number of employ��s to each man injured.....	122

A comparison of some of the totals in the foregoing summary with those of last year will be interesting. The number of mines for which returns have been made is 933. This is 18 more than last year. The mines engaged in the local trade only number 580. This is three less than last year. The total number of tons of coal produced, all grades, was 34,955,400, being an increase of 4,934,100 tons over last year. The number of shipping mines increased from 332 last year to 353 this year, being 6.33 per cent. The total output of this class of mines was 33,676,537 tons, or an increase over last year of 17 per cent. The output of the 580 local mines was 1,278,863 tons, being an average of 2,205 tons to each mine. The total number of men employed during the year was 49,814, being an increase of 3,809 over last year. The average number of days for the shipping mines was 222. This is 12 days of an increase over last year.

CLASSIFICATION OF MINES.

The following table presents the totals, mines, men and tons, for both shipping and local mines, for the year, by districts:

TABLE 1.—*Mines, Men and Tons, Shipping and Local Mines, by Districts, 1903.*

DISTRICT.	TOTAL.			SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First	74	7,717	3,748,651	34	7,340	3,553,136	40	377	195,515
Second	181	6,860	3,245,781	25	6,072	2,991,168	156	785	254,613
Third	243	4,363	2,708,350	50	3,355	2,319,691	193	1,008	388,659
Fourth	87	6,771	4,772,284	45	6,319	4,573,052	42	452	199,232
Fifth.....	101	8,393	7,070,903	46	8,139	6,990,197	55	254	80,706
Sixth.....	113	8,354	7,734,831	83	8,179	7,656,451	30	175	78,380
Seventh	134	7,356	5,674,600	70	7,090	5,592,842	64	266	81,758
The State.	933	49,814	34,955,400	353	46,494	33,676,537	580	3,320	1,278,863

Almost the entire increase in the tonnage over last year is found to be in the fourth, fifth, sixth and seventh districts.

The following table presents the percentages of mines, men and tons, shown in table 1:

TABLE 2.—*Percentages of Mines, Men and Tons, all Mines, and of Shipping and Local Mines, 1903.*

DISTRICT.	PERCENTAGES.								
	ALL MINES.			SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First.....	7.93	15.50	10.72	45.95	95.11	94.78	54.05	4.89	5.22
Second	19.40	13.77	9.29	13.81	88.51	92.16	86.19	11.49	7.84
Third	26.05	8.76	7.75	20.58	76.90	85.65	79.42	23.10	14.35
Fourth	9.32	13.59	13.65	51.72	93.32	95.83	48.28	6.68	4.17
Fifth.....	10.83	16.85	20.23	45.54	96.97	98.86	54.56	3.03	1.14
Sixth.....	12.11	16.77	22.13	73.45	97.91	98.98	26.55	2.09	1.02
Seventh.....	14.36	14.76	16.23	52.24	96.38	99.56	47.76	3.62	1.44
The States.....	100.00	100.00	100.00	37.83	93.34	96.34	62.17	6.66	3.66

The percentages here presented reveal that the shipping mines, while 38 per cent of the number in operation, employ 93 per cent of the men, and produced 96 per cent of the coal for the year. The local mines represent 62 per cent of the mines, 7 per cent of the men and 4 per cent of the tonnage. The amplitude of the shipping or commercial mines in the production of coal is presented in the following table of percentages, shown by districts, and for the State, for a series of ten years:

TABLE 3.—*Percentages of the Tonnage of Shipping Mines of the State for a Series of Ten Years, by Districts.*

Year.	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	The State.
1903	94.78	92.16	85.65	95.83	98.86	98.98	95.96	96.34
1902	94.93	91.89	85.54	95.36	98.82	98.73	98.37	96.01
1901	96.68	89.38	85.98	94.65	98.65	98.64	97.63	95.84
1900	95.81	89.14	87.18	95.47	98.39	93.84	96.47	95.64
1899	94.73	92.53	79.93	95.43	98.81	98.57	98.52	96.15
1898	91.35	88.61	78.59	93.69	99.12	98.48	98.11	94.93
1897	97.29	92.99	78.91	95.20	99.32	98.55	97.82	96.53
1896	96.2	92.6	78.9	95.1	99.2	98.7	96.6	96.26
1895	93.7	86.8	90.6	99.0	91.3	.....	.....	93.48
1894	93.8	83.0	91.7	98.8	93.7	.....	.....	94.10

Only two of the districts show less than 90 per cent of the coal produced by this class of mines, during these years; the second district for five years and the third for eight years. For the State, the percentage of the output of shipping mines for the ten years has never been less than 93 per cent.

A further presentation of the attainments of these mines is shown in the following table:

TABLE 4.—*Mines, Men and Tons, with Percentages for a Series of Ten Years.*

YEARS.	TOTALS—ALL MINES.			PERCENTAGES.					
				SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1903	933	49,814	34,955,400	37.83	93.34	96.34	62.17	6.66	3.66
1902	915	46,005	30,021,300	36.23	93.05	96.01	63.72	6.95	3.99
1901	915	44,143	26,635,319	36.17	92.71	95.84	63.83	7.29	4.16
1900	920	39,384	25,153,929	35.11	92.16	95.64	64.89	7.84	4.36
1899	889	36,991	23,434,445	36.33	92.74	96.15	63.67	7.26	3.85
1898	881	35,026	18,599,299	37.49	92.30	94.93	62.51	7.70	5.07
1897	853	33,788	20,072,758	36.38	92.72	96.53	63.62	7.28	3.47
1896	901	37,032	19,786,626	36.62	76.11	96.26	63.38	23.89	3.74
1895	874	38,630	17,735,864	36.50	80.70	93.48	63.50	19.30	6.52
1894	836	38,477	17,113,576	38.16	81.20	94.10	61.84	18.80	5.90

This table shows the totals of mines, men and tons for a series of ten years, with the percentages of each for both the shipping and local mines. It will be observed that, for the ten years, the percentages of mines, men and tons, of the commercial or shipping class of mines, has been quite uniform in each grouping.

The grouping of all the mines of the State by tonnage, and by districts, is shown in the following table:

TABLE 5—*Grouping of Mines by Tonnage and Districts, 1903.*

DISTRICT.	TONNAGE OF MINES PRODUCING—											
	Under 1,000.		1,000 and under 10,000.		10,000 and under 50,000.		50,000 and under 100,000.		100,000 and under 200,000.		200,000 and over.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
First	17	8,938	24	70,796	7	143,107	7	507,107	16	2,312,391	3	706,312
Second	84	30,232	73	180,195	11	213,789	1	86,812	6	983,401	6	1,751,352
Third	112	48,422	79	235,638	36	852,949	10	687,810	6	852,531	....	.....
Fourth	11	6,246	41	140,588	8	208,240	9	665,430	11	1,449,710	7	2,302,070
Fifth	43	14,999	11	30,678	4	100,492	11	921,987	21	2,937,158	11	3,065,589
Sixth	8	4,460	29	110,207	28	1,009,425	22	1,512,333	16	2,326,286	10	2,772,120
Seventh	38	13,381	36	103,240	26	838,341	15	1,063,716	11	1,524,960	8	2,130,962
The State.	313	126,678	293	871,342	120	3,396,343	75	5,445,195	87	12,387,437	45	12,728,405

The tendency in most of the districts is to an increase in the number of mines producing 50,000 tons and over. The grouping of the mines as shown in table 5, is presented in another form in the following table, showing the percentages of mines and tonnage in each classification.

TABLE 6—*Classification of Mines as to Tonnage, with Percentages of Mines and Tons, 1903.*

MINES PRODUCING—	No. of mines.	Tonnage.	PERCENTAGE OF	
			Mines.	Tons.
Less than 1,000 tons	313	126,678	33.12	.36
One thousand and less than 10,000 tons	293	871,342	31.61	2.49
Ten thousand and less than 50,000 tons	120	3,396,343	12.94	9.72
Fifty thousand and less than 100,000 tons	75	5,445,195	8.09	15.58
One hundred thousand and less than 200,000 tons ..	87	12,387,437	9.39	35.44
Two hundred thousand tons and over	45	12,728,405	4.85	36.41

The mines producing 50,000 tons and over, represent only 22 per cent of the number of mines, but contributed 87 per cent of the output. It will be seen that the mines producing 200,000 tons and over,

while representing only 4.85 per cent of the total number, produced 36.41 per cent of the total tonnage. The grouping of mines by output for a series of 21 years is shown in the following table:

TABLE 7.—*Number of Mines in Specified Groups of Tonnage for a Series of Twenty-one Years.*

YEAR,	NUMBER OF MINES PRODUCING—						Total mines.
	Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons	50,000 and under 100,000 tons	100,000 and under 200,000 tons	200,000 tons and over.	
1883	209	233	133	39	10	15	639
1884	262	273	149	38	16	4	741
1885	286	290	143	40	18	1	778
1886	316	280	135	44	11	3	789
1887	320	278	141	42	18	2	801
1888	327	272	151	47	20	5	822
1889	321	316	139	55	20	3	854
1890	398	301	155	54	24	4	936
1891	403	260	161	52	37	6	918
1892	332	239	151	65	46	6	839
1893	282	232	140	75	47	12	788
1894	312	252	161	61	44	6	836
1895	319	276	145	61	45	9	855
1896	330	280	128	63	45	16	862
1897	346	250	120	79	41	17	853
1898	351	244	151	86	42	7	881
1899	346	261	123	78	56	25	889
1900	340	295	123	70	65	27	920
1901	313	308	124	79	58	33	915
1902	314	263	152	76	72	38	915
1903	313	293	120	75	87	45	933

The number of mines with an output of 100,000 tons, and over, has increased 20 per cent over last year; while the number of mines producing less than 100,000 tons and more than 10,000 tons, has decreased 14.47 per cent. The number of mines having an output of less than 10,000 tons has increased only 5 per cent. Of this latter class of mines a division is made, showing the number of mines whose product is less than 1,000 tons. However, grouping the mines returning a product under 10,000 tons, it is found that the number has only increased 7.44 per cent in the past ten years.

The following table shows the percentages of this grouping of mines for the 21 years:

TABLE 8.—*Percentages of Mines in Specified Grouping of Tonnage for a Series of Twenty-one Years.*

YEAR.	TOTAL MINES.	PERCENTAGES OF MINES PRODUCING—					
		Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.
1883	639	32.71	36.47	20.81	6.10	1.56	2.35
1884	741	35.36	36.84	19.97	5.13	2.16	.54
1885	778	36.76	37.27	18.39	5.14	2.32	.13
1886	789	40.05	35.49	17.11	5.58	1.39	.38
1887	801	39.95	34.71	17.60	5.24	2.25	.25
1888	822	39.79	33.09	18.37	5.71	2.43	.61
1889	854	37.59	37.00	16.28	6.44	2.34	.35
1890	936	42.52	32.16	16.56	5.77	2.56	.43
1891	918	43.79	28.32	17.54	5.67	4.03	.65
1892	839	39.69	29.44	17.76	7.03	4.89	1.19
1893	788	35.91	29.44	16.24	10.92	5.71	1.78
1894	836	37.08	29.07	19.62	8.25	5.26	.72
1895	859	36.43	33.29	16.65	7.33	5.25	1.05
1896	874	38.90	30.66	14.88	8.35	5.61	1.60
1897	853	40.56	29.31	14.07	9.26	4.81	1.99
1898	881	39.84	27.70	17.14	9.76	4.77	.79
1899	889	38.92	29.36	13.84	8.66	6.41	2.81
1900	920	36.96	32.07	13.37	7.61	7.06	2.93
1901	915	34.21	33.66	13.55	8.63	6.34	3.61
1902	915	34.32	28.74	16.61	8.31	7.87	4.15
1903	933	33.55	31.40	12.86	8.04	9.33	4.82

It will be seen that very little variation has occurred in the number of mines in each of the groups, producing under 100,000 tons for the years shown in the table. For the past five years, however, the number producing 100,000 tons and over has increased 63 per cent.

The grouping of mines by tonnage, for 12 years, is shown in the following table:

TABLE 9—*Grouping of Mines by Tonnage for a Series of Twelve Years.*

YEAR.	TONNAGE OF MINES PRODUCING—					
	Under 1,000 tons.	1,000 and under 10,000.	10,000 and under 50,000.	50,000 and under 100,000.	100,000 and under 200,000.	200,000 and over.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1892.....	147,777	1,058,078	4,134,259	4,293,472	5,855,091	2,373,599
1893.....	121,636	726,199	3,132,499	6,179,487	6,291,965	3,497,778
1894.....	137,507	702,623	4,022,545	4,742,257	6,035,094	1,473,550
1895.....	151,430	866,019	3,609,918	4,416,969	6,346,937	2,344,591
1896.....	141,690	807,148	3,265,822	5,049,694	6,557,545	3,962,435
1897.....	150,445	773,526	3,162,713	5,693,193	5,778,374	4,514,507
1898.....	161,622	692,149	3,785,962	6,351,513	5,898,596	1,709,457
1899.....	137,582	790,948	2,877,117	5,618,924	7,443,023	6,566,851
1900.....	154,318	969,424	3,255,570	5,009,326	8,995,963	6,769,328
1901.....	227,419	839,989	3,393,827	5,795,953	8,008,897	8,370,234
1902.....	161,058	763,597	3,694,890	5,376,350	9,923,538	10,101,867
1903.....	126,678	871,342	3,396,343	5,445,195	12,387,437	12,728,405

The tonnage here shown in the mines, classed as to their capacity of production, shows but little change in the tons produced by the mines in the different groups of less than 100,000 tons.

The following table gives the total tons of all mines with the percentages of each group for 12 years, as follows:

TABLE 10—*Percentages of Tons Produced by Specified Grouping of Tonnage for Twelve Years.*

YEARS.	Total Tons.	PERCENTAGE OF TONS PRODUCED BY MINES PRODUCING—					
		Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.
1892	17,862,276	.82	5.92	23.15	24.04	32.78	13.29
1893	19,949,564	.61	3.64	15.70	30.98	31.54	17.53
1894	17,113,576	.80	4.11	23.50	27.71	35.26	8.61
1896	17,735,864	.85	4.88	20.35	24.91	35.79	13.22
1896	19,784,334	.72	4.08	16.51	25.52	33.14	20.03
1897	20,072,758	.75	3.85	15.75	28.37	28.79	22.49
1898	18,599,299	.87	3.72	20.36	34.15	31.71	9.19
1899	23,434,445	.59	3.38	12.28	23.97	31.76	28.02
1900	25,153,929	.61	3.86	12.94	19.92	35.76	26.91
1901	26,635,319	.85	3.15	12.74	21.76	30.07	31.43
1902	30,021,300	.54	2.54	12.31	17.90	33.06	33.65
1903	34,955,400	.36	2.49	9.72	15.58	35.44	35.41

Referring to both tables nine and ten, it will be seen that the mines producing over 50,000 tons have furnished a very large proportion of the coal for each of the years represented.

THE LARGE MINES OF THE STATE.

To bring more prominently to notice the class of mines whose product is over 100,000 tons, two tables are presented—one showing the list of operators and the location of the mines whose product is 100,000 tons and less than 200,000; the other is a list giving the names and location of mines that report an output of 200,000 tons and over.

The tables follow:

TABLE 11—*Mines from which more than 100,000 tons and less than 200,000 tons of coal have been delivered during the year 1903.*

Rank.	Companies.	Location.	Tons.
1	Chicago, Wilmington & Vermillion Coal Co. No. 1...	Streator	199,519
2	Royal Coal Co., Royal.....	Belleville.....	197,300
3	Donk Bros. Coal & Coke Co. No. 2	Maryville.....	196,200
4	Consolidated Coal Co. No. 10.....	Mt. Olive.....	195,875
5	Consolidated Coal Co.....	Collinsville.....	195,743
6	Whitebreast Coal Co. of Illinois E.....	Dunfermline.....	195,355
7	Muren Coal & Ice Co. No. 1.....	New Baden.....	194,276
8	Southern Illinois Coal Mining & Washing Co. No. 2.....	Marion.....	188,511
9	Illinois Third Vein Coal Co. B.....	Ladd.....	187,401
10	Southern Illinois Coal Mining & Washing Co. No. 3.....	Marion.....	186,603
11	Spring Valley Coal Co. No. 5.....	Spring Valley.....	185,998
12	LaSalle County Coal Co., Union.....	LaSalle.....	182,107
13	Capitol Co-operative Coal Co.....	Springfield.....	181,991
14	LaSalle County Coal Co. No. 1.....	LaSalle.....	178,935
15	Greenridge Mining Co	Girard.....	178,927
16	Sorento Coal Co.....	Sorento.....	176,000
17	New Virginia No. 1.....	Lake Creek.....	175,050
18	Spring Valley Coal Co. No. 4.....	Seatonville.....	174,443
19	LaSalle County Coal Co., LaSalle.....	LaSalle.....	166,771
20	Viriden Coal Co.....	Viriden.....	165,841
21	Coal Valley Mining Co. No. 2.....	Sherrard.....	164,062
22	Springfield Coal & Mining Co. No. 4.....	Springfield.....	164,032
23	Braceville Coal Co. No. 5.....	Braceville.....	163,285
24	LaSalle County Coal Co., Rockwell.....	LaSalle.....	162,963
25	Hillsboro Coal Co.....	Hillsboro.....	158,950
26	Acme Coal Co. No. 1.....	Streator	158,326
27	Alden Coal Co. No. 2.....	Wanlock.....	158,070
28	The Jones & Adams Coal Co.....	Catlin.....	156,368
29	Kelleyville Coal Co. No. 4.....	Danville.....	155,265
30	McLean County Coal Co	Bloomington.....	155,122
31	Springfield Coal & Mining Co. No. 5.....	Springfield.....	152,430
32	White Walnut Coal Co. No. 7.....	Pinckneyville.....	150,851
33	St. Louis & O'Fallon Coal Co.....	Belleville.....	150,339
34	Chicago, Wilmington & Vermillion Coal Co. No. 2....	South Wilmington.....	149,902
35	Springfield Coal & Mining Co. No. 3.....	Springfield.....	146,350

Table 11--Continued.

Rank.	Companies.	Location.	Tons.
36	Latham Coal Co.....	Lincoln.....	146,194
37	Springfield Co-operative Coal Co.....	Springfield.....	146,108
38	Maplewood Coal Co., Black Hawk.....	Farmington.....	145,817
39	Big Four Wilmington Coal Co. No. 3.....	Coal City.....	145,013
40	Penwell Coal Co. No. 1.....	Pana.....	141,766
41	Greenview Coal & Mining Co.....	Greenview.....	141,064
42	Spaulding Coal Co. No. 1.....	Spaulding.....	141,009
43	Trenton Coal Co.....	Trenton.....	140,452
44	West End Coal Co.....	Springfield.....	139,400
45	Consolidated Coal Co., Abby No. 3.....	Collinsville.....	139,063
46	Monmouth Coal Co.....	Canton.....	137,209
47	Wabash Coal Co.....	Athens.....	132,439
48	Brookside Coal Mining Co. No. 2.....	Danville.....	131,861
49	Carterville Coal Co., Burr.....	Carterville.....	131,057
50	Davenport Coal Co. No. 1.....	Ledford.....	130,722
51	Consolidated Coal Co., Heinz Bluff.....	Collinsville.....	129,670
52	Springfield Coal & Mining Co. No. 1.....	Riverton.....	129,252
53	Star Coal Co. No. 2.....	Streator.....	129,068
54	Chicago & Big Muddy Coal Co. No. 1.....	Marion.....	127,693
55	Muren Coal & Ice Co. No. 1.....	Belleville.....	124,061
56	Cantrall Co-operative Coal Co.....	Cantrall.....	122,637
57	Carlinville Coal Co.....	Carlinville.....	122,576
58	Sangamon Coal Co.....	Springfield.....	121,313
59	Walnut Hill Coal Co.....	Belleville.....	121,243
60	Kerns-Donnelwald Coal Co. No. 1.....	Worden.....	120,982
61	Roanoke Coal & Mining Co.....	Roanoke.....	119,679
62	Lincoln Coal Co.....	Lincoln.....	119,662
63	Oglesby Coal Co. No. 1.....	Oglesby.....	118,761
64	Wilmington Coal Mining & Manufacturing Co. No. 4.....	Diamond.....	116,662
65	Woodside Coal Co.....	Springfield.....	118,009
66	Republic Iron & Steel Co.....	Springfield.....	117,932
67	Kolb Coal Co. No. 1.....	Mascoutah.....	117,799
68	Taylor & Kavanaugh No. 5.....	Carbon Hill.....	114,960
69	Wenona Coal Co. No. 1.....	Wenona.....	113,427
70	Williamson County Coal Co. No. 1.....	Lake Creek.....	113,325
71	Springside Coal Co.....	Pana.....	112,389
72	Madison Coal Co. No. 3.....	Edwardsville.....	112,262
73	Mrs. E. Hakes No. 2.....	Rutland.....	111,580

Table 11—Concluded.

Rank.	Companies.	Location.	Tons.
74	Wabash Coal Co	Dawson	110,312
75	Williamsville Coal Co.....	Selbytown.....	109,627
76	Sandoval Coal Co. No. 1.....	Sandoval	108,015
77	New Ohio Washed Coal Co. No. 1.....	Cartersville	107,683
78	Spaulding Coal Co. No. 2.....	Bissell.....	107,431
79	Pana Coal Co.....	Pana	107,404
80	Auburn & Alton Coal Co.....	Auburn.....	107,126
81	Western Anthracite Coal & Coke Co.....	Sparta.....	107,014
82	Big Four Wilmington Coal Co. No. 2.....	Coal City.....	106,683
83	Horn's Colliery Co.....	Duquoin.....	106,451
84	Wilmington Star Mining Co. No. 6.....	Coal City.....	105,856
85	Economy Coal & Mining Co	Danville.....	104,000
86	Madison Coal Co. No. 7.....	Glen Carbon.....	102,881
87	Whitebreast Fuel Co. of Illinois, C.....	Dunfermline.....	101,647
Total tons.....			12,387,437

TABLE 12.—*Mines from which more than 200,000 tons of coal have been delivered during the year 1903.*

Rank.	Companies.	Location.	Days in operation.	Depth of Mine.	Thickness of seam.	How worked.	Tons.
1	Kelleyville Coal Co. No. 3	Danville	277	212	7	H.	448,354
2	Big Muddy Coal & Iron Co. No. 7.....	Herrin.....	257	140	9	H.	440,298
3	Kelleyville Coal Co. No. 2.....	Danville	272	210	7	H.	406,248
4	Chicago, W. & V. Coal Co.....	Thayer	252	292	7.11	M.	403,758
5	Donk Bros. Coal & Coke Co. No. 1.....	Collinsville...	268	137	6	H.	393,800
6	Pittenger & Davis M. Mfg. Co. No. 3-4....	Centralia	270	637	6	H.	391,176
7	Chicago Virden Coal Co. No. 1.....	Virden.....	248	320	7.6	M.	364,543
8	Westville Coal Co.....	Westville.....	273	210	7	H.	346,194
9	Kelleyville Coal Co. (Himrod).....	Danville	272	170	8	H&M	344,769
10	Devlin Coal Co. No. 1.....	Toluca.....	278	512	2.8	H.	336,047
11	Spring Valley Coal Co. No. 2.....	Spring Valley	272	342	3.6	H.	333,832
12	Spring Valley Coal Co. No. 1.....	Spring Valley	264	345	3.6	H.	327,146
13	Madison Coal Co. No. 6.....	Divernon	244	318	8	M.	306,842
14	Kelleyville Coal Co. (Pawnee).....	Danville	272	90	8	H.	306,622
15	Staunton Coal Co. No. 1	Staunton	213	292	6	M.	304,643

Table 12—Concluded.

Rank.	Companies.	Location.	Days in operation.	Depth of Mine.	Thickness of seam.	How worked.	Tons.
16	Chicago W. & V. Coal Co. No. 1.....	S. Wilmington	297	195	3.3	H.	298,007
17	Jones & Adams Coal Co.....	Springfield ...	258	250	5.9	H.	290,905
18	Chicago & Carterville Coal Co. No. 1.....	Herrin.....	227	180	9	H&M	277,898
19	Centralla M. & Mfg. Co. No. 2.....	Centralla, ...	255	576	6	H.	272,905
20	Spring Valley Coal Co. No. 3.....	Spring Valley	236	481	3.6	H.	272,637
21	Marquette Coal Co. No. 1.....	Marquette....	280	302	3.6	H.	270,472
22	Chicago Virden Coal Co. No. 2.....	Auburn.....	192	259	7	H.	269,889
23	Springside Coal Co. No. 1.....	Herrin.....	222	145	9	H.	266,304
24	Big Muddy Coal & Iron Co. No. 6.....	Murphysboro.	242	150	6.3	H&M	264,073
25	Springfield C. & M. Co. No. 2.....	Riverton.....	235	232	5.9	H.	258,650
26	Consolidated Coal Co. No. 6.....	Staunton	245	322	6	M.	256,406
27	Madison Coal Co. No. 2.....	Glen Carbon..	237	110	6	M.	253,301
28	Madison Coal Co. No. 4.....	Glen Carbon..	237	130	6	M.	252,479
29	Madison Coal Co. No. 5.....	Mt. Olive.....	246	435	8	M.	245,992
30	Big Muddy Coal & Iron Co. (Harrison)...	Murphysboro.	212	150	6.6	H&M	239,253
31	Donk Bros. G. & C. Co. No. 3.....	Troy.....	232	273	5	H.	236,300
32	Springfield C. & M. Co. No. 6.....	Taylorville...	249	462	7.6	H.	233,068
33	Breese Coal & Mining Co.....	Breese.....	300	400	7	H.	231,001
34	Consolidated Coal Co. No. 8.....	Mt. Olive.....	226	410	8	M.	229,654
35	Muddy Valley M. & Mfg. Co. No. 1.....	Hallidayboro.	234	165	8	H.	228,885
36	Victor Coal Co.....	Pawnee.....	220	324	7.6	H.	228,190
37	Odin Coal Co.....	Odin.....	293	714	6	M.	218,713
38	Lumaghi Coal Co. No. 2.....	Collinsville...	291	227	6	M.	217,802
39	Christian Co. Coal Co. No. 1.....	Taylorville....	186	470	7.6	H.	216,815
40	St. Louis & Big Muddy Coal Co.....	Dewmaine....	233	90	9	H.	213,040
41	Empire Coal Co. No. 3.....	Gilchrist	256	140	4.3	H.	211,218
42	Consolidated Coal Co. No. 7.....	Staunton	220	360	6.8	M.	210,760
43	Chicago, W. & V. Coal Co. No. 2.....	Streator	268	116	6	H.	206,749
44	Cardiff Coal Co. No. 1.....	Cardiff.....	192	255	12.3	H.	201,556
45	Willis Coal & Mining Co. No. 1.....	Willisville....	259	80	6	H&M	201,211
Total tons.....		.....	.....	.....	.....	.....	12,728,405

Table 11 presents 87 mines which produced 100,000 and less than 200,000 tons each, aggregating 12,387,437 tons. Table 12 shows 45 mines, each of which produced over 200,000 tons, the total product of these mines being 12,728,405 tons. In this table is also presented

the number of days each mine was in operation, the depth of the coal seam below the surface, the thickness of the seam and the manner of mining, whether by hand or by machine, or by both. It will be noticed that four of the mines in table 12 had each an output of over 400,000 tons, three in Vermilion county and one in Sangamon. Last year only one mine exceeded 400,000 tons.

Eleven of these mines produced over 300,000 tons; the number was seven last year. This leaves 34 mines yielding an output of over 200,000 tons.

The working time of these 45 mines was an average of 249.2 days each; this is 27 days more than is shown for all the shipping mines. In 28 of these mines the coal was mined by hand, in 12 by machines and in five by both hand and machine. The combined output of these large producers was 25,115,842 tons, or 71.85 per cent of the total tonnage of all mines in the State.

NUMBER OF MINES.

The gain and loss in the number of mines, each year, varies but little. Every year shows about 100 or more new mines opened and a like number closed or abandoned; these are all of the smaller or local mines.

The following table presents the record for the year by districts:

TABLE 13—*Gain and Loss in Number of Mines 1902-1903, by Districts.*

DISTRICT.	Total number of mines, 1902.	Number of new mines opened 1903.	Total.	Number of mines abandon'd 1903.	Total number of mines 1903.	YEAR 1903.	
						Gain.	Loss.
First	77	8	85	11	74	.....	3
Second	176	26	202	21	181	5	.....
Thlrd	241	25	266	23	243	2	.....
Fourth	84	18	102	15	87	3	.....
Fifth	99	9	108	7	101	2	.....
Sixth	111	11	122	9	113	2	.....
Seventh.....	127	12	139	5	134	7	.....
The State....	915	109	1,024	91	933	21	3

All of the districts show a gain in the number of mines excepting the first, which shows a loss of three mines. The net gain for all mines is 18 over last year.

The record of the opening of new mines and the closing of worked out or abandoned mines for a series of 14 years is presented in the following table:

TABLE 14—*Total Number of Mines, also the Number Opened and Closed, also the Gain and Loss for 14 Years.*

YEAR.	NUMBER OF MINES.					
	At begin- ning of Year.	Opened.	Closed.	Gain.	Loss.	At Close of Year.
1890.....	854	176	94	82	.....	936
1891.....	936	92	110	.....	18	918
1892.....	918	59	138	.....	79	839
1893.....	839	69	120	.....	51	798
1894.....	788	156	108	48	.....	836
1895.....	836	116	78	38	.....	874
1896.....	874	142	115	27	.....	901
1897.....	901	70	118	.....	48	853
1898.....	853	120	92	28	.....	881
1899.....	881	129	121	8	.....	889
1900.....	889	147	116	31	.....	920
1901.....	920	138	143	.....	5	915
1902.....	915	111	111	.....	.....	915
1903.....	915	109	91	18	.....	933
Totals		1,634	1,555	280	201	

Here is shown that during the 14 years covered by the table 1,634 mines have been opened, while during the same period 1,555 have been closed or abandoned, leaving a net gain of only 79 mines.

SHIPPING MINES.

The same plan or arrangement of the tables adopted last year is followed in this report, that is, to classify the shipping mines and the local mines separately.

The following table presents a list of the shipping or commercial collieries of the State for the year, giving the names of operators, number and location of mines, total output and disposition of same:

TABLE 15—*A List of the Shipping or Commercial Collieries of the State, Arranged According to Output, 1903.*

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed or wasted at the mine.
Consolidated Coal Co.....	20		2,037,014	1,798,743	238,271
..do.....	6 Belleville.....		210,852	192,074	18,778
..do.....	3 Collinsville...		464,476	412,020	52,456
..do.....	1 Fairmount ...		80,455	73,245	7,207
..do.....	1 Gillespie.....		77,859	55,348	22,511
..do.....	1 Hornsby.....		51,862	43,711	8,151
..do.....	1 Marissa.....		48,101	44,541	3,560
..do.....	1 Mission Field.		75,918	70,175	5,743
..do.....	2 Mt. Olive		425,529	396,264	29,265
..do.....	2 Staunton		467,166	397,168	69,998
..do.....	1 Trenton		83,970	69,974	13,996
..do.....	1 Troy		50,826	44,220	6,606
Kelleyville Coal Co	5		1,714,434	1,667,581	46,853
..do.....	1 Elmrod		344,769	342,324	2,445
..do.....	4 Westville.....		1,369,665	1,325,257	44,408
Spring Valley Coal Co.....	5		1,294,056	1,222,310	71,746
..do.....	1 Seatonville...		174,443	162,066	12,377
..do.....	4 Spring Valley		1,119,613	1,060,244	59,369
Madison Coal Co.....	6		1,273,757	1,161,171	112,586
..do.....	1 Davenport		306,842	293,977	12,865
..do.....	1 Edwardsville.		112,262	100,140	12,122
..do.....	3 Glen Carbon .		608,661	558,461	50,200
..do.....	1 Mt. Olive		245,992	208,593	37,399
Chicago, Wilmington & Vermillion Coal Co.	5		1,257,934	1,177,587	80,347
..do.....	2 S. Wilmingt'n		447,909	403,393	44,516
..do.....	2 Streator		406,267	382,176	24,091
..do.....	1 Thayer		403,758	392,018	11,740

Table 15—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed or wasted at the mine.
Springfield Coal & Mining Co.....	6	.....	1,083,782	950,972	102,810
..do.....	2	Riverton.....	387,902	368,897	19,005
..do.....	3	Springfield...	462,812	439,553	23,259
..do.....	1	Taylorville...	233,068	172,522	60,546
Big Muddy Coal & Iron Co.....	3	.....	943,624	904,851	38,773
..do.....	1	Herrin.....	440,298	426,399	13,899
..do.....	2	Murphysboro.	503,326	478,452	24,874
Donk Bros Coal & Coke Co.....	4	.....	857,960	833,480	24,480
..do.....	1	Belleville....	31,660	30,400	1,260
..do.....	1	Collinsville...	393,800	386,480	7,320
..do.....	1	Maryville.....	196,200	188,700	7,500
..do.....	1	Troy.....	236,300	227,900	8,400
Chicago-Virden Coal Co.....	3	.....	730,054	705,343	24,711
..do.....	1	Auburn.....	269,889	264,691	5,198
..do.....	1	Chatham.....	95,622	90,230	5,392
..do.....	1	Virden.....	364,543	350,422	14,121
LaSalle County Carbon Coal Co.....	4	LaSalle.....	690,777	523,196	167,581
Jones & Adams Coal Co.....	2	.....	447,273	429,151	18,122
..do.....	1	Catlin.....	156,368	151,416	4,952
..do.....	1	Springfield...	290,905	277,735	13,170
Southern Illinois Coal Mining & Washing Co	3	Marion.....	433,974	423,684	10,290
Pittenger & Davis Co.....	1	Centralia.....	391,176	256,127	135,049
Westville Coal Co.....	1	Westville.....	346,194	338,354	7,840
Devlin Coal Co.....	1	Toluca.....	336,047	284,540	51,507
Willis Coal & Mining Co.....	3	.....	328,108	243,093	85,015
..do.....	1	Bryden.....	64,458	62,586	1,872
..do.....	1	DuQuoin.....	62,439	60,182	2,257
..do.....	1	Willisville....	201,211	120,325	80,886
Muren Coal & Ice Co.....	2	.....	318,337	278,993	39,344
..do.....	1	Belleville....	124,061	104,161	19,900
..do.....	1	New Baden...	194,276	174,832	19,444

Table 15—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed or wasted at the mine.
Staunton Coal Co.....	1	Staunton	304,643	291,141	13,499
Whitebreast Fuel Co. of Ill.....	2	Dunfermline ..	297,002	287,944	9,058
Marquette Coal Co	2	.....	281,001	262,953	18,048
..do.....	1	Marquette	270,472	257,984	12,488
..do.....	1	Sparland	10,529	4,969	5,560
Chicago & Carterville Coal Co.....	1	Herrin	277,898	265,137	12,761
Centralla Mining & Manufacturing Co.....	1	Centralla	272,905	185,164	87,741
Lumaghi Coal Co.....	2	Collinsville...	267,445	260,299	7,146
Sunnyside Coal Co.....	1	Herrin	266,304	243,818	22,486
Big 4 Wilmington Coal Co.....	2	Coal City	251,696	239,655	12,041
Coal Valley Mining Co.....	2	.....	250,874	240,466	10,408
..do.....	1	Cable	86,812	83,080	3,732
..do.....	1	Sherrard	164,062	157,386	6,676
Spaulding Coal Co	2	.....	248,440	246,490	1,950
..do.....	1	Bissell.....	107,431	106,431	950
..do.....	1	Spaulding	141,009	140,059	1,000
Wabash Coal Co.....	2	.....	242,751	228,073	14,678
..do.....	1	Athens	132,439	125,355	7,094
..do.....	1	Dawson.....	110,312	102,718	7,594
Breese Coal & Mining Co.....	1	Breese	231,001	185,601	45,400
Muddy Valley Mining & Mfg. Co	1	Hallidayboro ..	228,885	152,219	76,666
Victor Coal Co.....	1	Pawnee	228,190	221,490	6,700
Newsem Bros.....	5	.....	221,679	206,597	15,082
..do.....	1	Farmington ..	36,462	33,000	3,462
..do.....	4	Peoria	185,217	173,597	11,620
Odin Coal Co.....	1	Odin	218,713	193,954	19,759
Christian County Coal Co	1	Taylorville ...	216,815	211,767	5,048
St. Louis & Big Muddy Coal Co.....	1	Dewmaine....	213,040	200,242	12,798
Empire Coal Co.....	1	Gilchrist	211,218	207,030	4,138
Kolb Coal Co	2	Mascoutah ...	206,595	152,196	54,399
Cardiff Coal Co.....	1	Cardiff.....	201,556	192,912	8,644
Wilmington Coal Mining & Mfg. Co.....	2	Diamond	193,756	190,192	3,564

Table 15--Continued.

NAME OF OPERATOR.	Number of mines	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed or wasted at the mine.
Royal Coal Co	1	Belleville.....	197,300	190,100	7,200
New Ohio Washed Coal Co.....	2	Cartersville ...	194,787	180,307	14,480
Missouri & Illinois Coal Co.....	4	.....	193,923	188,211	5,712
..do.....	3	Belleville.....	190,394	184,981	5,413
..do.....	1	Willisville....	3,529	3,230	299
Citizens' Coal & Mining Co.....	2	Springfield ...	189,208	163,844	25,364
Weaver Coal Co	4	.....	187,518	181,296	6,220
..do.....	3	Duquoin	127,265	122,298	4,967
..do.....	1	Pinckneyville	60,253	59,000	1,253
Illinois Third Vein Coal Co	1	Ladd.....	187,401	168,306	19,095
Cartersville Coal Co.....	2	Cartersville ...	186,657	182,257	4,400
Wilmington Star Mining Co.....	2	Coal City.....	185,674	176,334	9,340
Capitol Coöperative Coal Co	1	Springfield ...	181,991	82,976	99,015
Taylor & Cavanaugh.....	2	Carbon Hill ..	179,419	165,539	13,880
Greenridge Mining Co	1	Girard	178,927	174,479	4,448
Joseph Taylor	2	O'Fallon.....	178,198	164,609	13,589
Sorento Coal Co.....	1	Sorento.....	176,000	168,000	8,000
New Virginia Coal Co.....	1	Lake Creek...	175,050	170,037	5,013
Virden Coal Co	1	Virden.....	165,841	142,772	23,069
Braceville Coal Co.....	1	Braceville ...	163,285	155,547	7,738
Hillsboro Coal Co	1	Hillsboro	158,980	146,285	12,695
Acme Coal Co	1	Streator	158,326	118,757	39,569
Alden Coal Co	1	Wanlock.....	158,070	148,580	9,490
McLean County Coal Co.....	1	Bloomington..	155,122	25,000	130,122
White Walnut Coal Co.....	1	Pinckneyville	150,851	115,325	35,526
St. Louis & O'Fallon Coal Co	1	Belleville.....	150,339	147,179	3,160
Latham Coal Co	1	Lincoln	146,194	137,396	8,798
Springfield Coöperative Coal Co.....	1	Springfield ...	146,108	117,102	29,006
Maplewood Coal Co	1	Farmington ..	145,817	143,597	2,220
Penwell Coal Co.....	1	Pana	141,766	113,345	28,421
Greenview Coal & Mining Co.....	1	Greenview ...	141,064	126,809	14,255
Hippard Coal Co.....	2	Belleville.....	140,545	97,739	42,806

Table 15—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed or wasted at the mine.
Trenton Coal Co.....	1	Trenton	140,452	115,235	25,217
West End Coal Co.....	1	Springfield ...	139,400	105,742	33,658
Star Coal Co	2	.....	137,856	134,800	3,056
..do.....	1	Carbon Hill ..	8,788	8,507	281
..do.....	1	Streator	129,068	126,293	2,775
Monmouth Coal Co.....	1	Canton	137,209	134,109	3,100
Brookside Coal & Mining Co.....	1	Grape Creek..	131,861	127,861	4,000
Davenport Coal Co.....	1	Ledford	130,722	114,522	16,200
Chicago & Big Muddy Coal & Coke Co.....	1	Marlon.....	127,693	126,368	1,325
Cantrall Coöperative Coal Co	1	Cantrall	122,637	98,160	24,477
Glendale Coal Co.....	2	Belleville.....	122,650	107,450	15,200
Carlinville Coal Co.....	1	Carlinville ...	122,576	103,292	19,284
Sangamon Coal Co	1	Springfield ...	121,313	115,167	6,146
Walnut Hill Coal Co.....	1	Belleville.....	121,243	118,038	3,205
Kerns Donnewald Coal Co.....	1	Worden.....	120,982	116,422	4,560
Roanoke Coal & Mining Co.....	1	Roanoke	119,679	100,526	19,153
Lincoln Coal Co	1	Lincoln	119,662	90,000	29,662
Oglesby Coal Co.....	1	Oglesby	118,761	108,615	10,146
Woodside Coal Co.....	1	Springfield ...	118,009	80,809	37,200
Republic Iron & Steel Co.....	1	.. do	117,932	61,087	56,845
Gartside Coal Co	2	Murphysboro.	117,795	101,853	15,942
Wenona Coal Co.....	1	Wenona	113,427	97,181	16,246
Willamson County Coal Co	1	Lake Creek...	113,325	106,110	7,215
Springside Coal Mining Co.....	1	Pana	112,389	107,221	5,168
Mrs. E. Hake	1	Rutland	111,580	102,980	8,600
Willamsville Coal Co.....	1	Selbytown....	109,627	76,627	33,000
Sandoval Coal Co	1	Sandoval	108,015	96,512	11,503
Pana Coal Co	1	Pana	107,404	61,922	45,482
Auburn & Alton Coal Co	1	Auburn.....	107,126	97,096	10,030
Western Anthracite Coal & Coke Co.....	1	Sparta	107,014	103,514	3,500
Horns Collery Co	1	Duquoin	106,451	99,951	6,500
Economy Coal C	1	Danville.....	104,000	78,000	26,000

Table 15—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed or wasted at the mine.
Citizens' Coal & Mining Co.....	1	Lincoln	98,335	70,652	27,683
Harrisburg Mining & Coal Co	1	Harrisburg...	97,000	90,000	7,000
The Moweaqua Coal Mining & Mfg. Co	1	Moweaqua....	95,742	66,370	29,372
Barclay Coal & Mining Co.....	1	Barclay.....	95,451	69,976	25,475
Sholl Bros	1	Peoria	90,500	88,700	1,800
Montgomery County Coal Co.....	1	Palsley	89,515	82,995	6,520
Jefferson Coal Co	1	Springfield...	89,390	85,500	3,890
Litchfield Mining & Power Co	1	Litchfield	88,613	64,091	24,522
Athens Mining Co	1	Athens	87,806	82,203	5,603
Assumption Coal & Mining Co.....	1	Assumption..	85,468	69,730	15,738
Clifton Coal Co.....	1	Harrisburg...	82,000	80,200	1,800
Lenz Coal & Mining Co.....	1	Belleville....	81,541	80,541	1,000
Decatur Coal Co.....	2	.....	78,947	55,548	23,399
..do.....	1	Decatur	46,356	31,000	15,356
..do.....	1	Niantic	32,591	24,548	8,043
Greenwood-Davis Coal Co	1	Duquoin	77,442	71,000	6,442
Clover Leaf Coal & Mining Co.....	1	Coffeen	76,859	72,595	4,264
Lebanon Coal & Mining Assn.....	1	Lebanon	75,553	65,503	10,050
Estate James Cahill	1	Peru	72,000	35,000	37,000
Chicago & Herrin Coal Co.....	1	Herrin	71,144	68,878	2,266
Applegate & Lewis	1	Cuba	70,643	66,003	4,640
Girard Coal Co	1	Girard	67,608	59,951	8,657
Walschlag Coöperative Coal Co.....	1	Peoria	67,477	66,566	911
Coulterville Mining Co	1	Coulterville..	67,052	51,349	15,703
Lake Superior Coal Co.....	3	.....	65,917	62,280	3,637
..do.....	1	Belleville....	15,062	13,462	1,600
..do.....	2	Duquoin	50,855	48,818	2,037
John O'Connell Coal Co	1	Grape Creek..	65,296	62,664	2,632
Clark Coal & Coke Co.....	1	Peoria	63,792	62,792	1,000
Norris Coal Mining Co.....	1	Norris	63,377	51,453	11,924
Belleville & O'Fallon Coal Co.....	1	Belleville....	62,995	50,489	12,506
Robert Dick Coal Co	1	Carterville...	61,236	60,141	1,095

Table 15—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed or wasted at the mine.
Hawarth & Taylor	1	Edwards	61,133	60,283	850
Daniel Zildorph	1	Marissa	60,930	59,576	1,354
Valley Coal Mining Co.....	1	Belleville.....	60,000	59,000	1,000
Borders Coal Co.....	1	Marissa.....	59,200	55,450	3,750
Colfax Coal Co.....	1	Colfax	59,189	43,198	15,991
Gardner-Wilmington Coal Co	1	Clark City....	58,195	47,318	10,877
Oakland Coal Co	1	Belleville.....	57,788	55,260	2,528
Henrietta Coal Co.....	1	Edwardsville..	56,631	45,067	11,563
East Cuba Coal Co	1	Cuba.....	55,908	33,739	22,199
Summit Coal Co.....	1	Belleville.....	55,782	55,062	720
Pontiac Coal Co	1	Pontiac	55,650	33,000	22,650
Ruby Coal Co.....	1	Caseyville....	55,000	53,000	2,000
Edward Little	2	East Peoria ..	54,000	54,000	.....
Tilden Coal Co	1	Tilden	53,294	49,607	3,687
Dutch Hollow Coal Co	1	Freeburg	51,766	49,000	2,766
Crystal Coal Co	1	Tilden	49,768	49,418	350
Illinois Fuel Co	2	Sparta	49,486	39,246	11,240
Superior Coal & Mining Co	1	Belleville.....	49,232	47,932	1,300
Skellet Coal Co	1	.. do	49,018	42,984	6,034
O'Fallon Coal & Mining Co	1	O'Fallon.....	48,476	45,550	2,926
Johnson City & Big Muddy Coal & M. Co....	1	Lake Creek...	48,353	45,553	2,800
Charles Hartman.....	1	Belleville.....	48,010	43,840	4,200
Marlon Coal Co	1	Marlon.....	48,000	47,500	500
Scripps Coal Co	1	Astoria	47,762	43,872	3,890
Oak Hill Coal Co	1	Belleville.....	46,985	43,452	3,533
Collier Coöperative Coal Co	1	Bartonville...	46,733	46,133	600
Tirre & Sons Coal Co.....	1	Lenzburg	46,620	35,220	11,400
Eureka Coal Co	1	Marissa.....	46,235	42,860	3,375
Soper & Co	1	Cutler	45,994	34,194	11,800
Goalby Bros. Coal Co	1	Percy	45,792	44,057	1,735
Illinois Zinc Co.....	1	Peru	44,979	44,585	394
Highland Coal Co	1	Belleville.....	44,944	38,706	6,238

Table 15—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed or wasted at the mine.
Rosborough Coal Co	1	Sparta	44,875	44,240	635
Tallula Coal Co.....	1	Tallula	43,280	38,865	4,415
Weaver Coal & Coke Co.	1	Nilwood	42,420	34,710	7,710
Bailey Bros. Coal Co.....	1	Sunfield	41,750	39,500	2,250
Sunlight Coal Co	1	Freeburg	40,199	34,607	5,592
Kewanee Coal & Mining Co	1	Kewanee	39,450	32,450	7,000
Adam Kuhn	1	Dubois	39,000	35,000	4,000
Dawson & Fulton Coal Co.....	1	Sparta	37,296	36,030	1,266
Gallatin Coal & Coke Co.....	1	Equality.....	35,487	30,931	4,556
Silvis Mining Co	1	Carbon Cliff..	35,210	34,085	1,125
Johnson Coal Co	1	Marissa.....	35,118	31,698	3,460
South Mountain Coal Co.....	1	Petersburg ...	34,804	24,780	10,024
Vickery Bros	1	Peoria	34,260	33,000	1,260
Enterprise Coal Co	1	Rentchler	34,125	33,245	880
Murphy, Keenan & Co	1	Braidwood ...	33,116	24,921	8,195
DeSoto Coal & Washing Co	1	DeSoto	32,800	30,000	2,800
Theodore Michaels.....	1	Belleville.....	32,131	30,455	1,676
Mauck Bros.....	1	Danville	31,386	8,500	22,886
Canton Union Coal Co	1	Canton	30,834	35,000	5,834
Farmington Coal Co	1	Farmington ..	30,383	29,076	1,307
Etherly Coal Co	1	Etherly	30,350	29,210	1,140
Reentz Bros	1	Kramm	29,700	29,300	400
Carterville District Coal Co	1	Marion.....	28,725	27,597	1,128
C. B. Kramm & Bro.....	1	Edwards	28,600	28,400	200
W. E. Foley.....	1	Mapleton	26,820	26,820	.....
Old Kentucky Coal Co	1	Tamara.....	26,729	24,614	2,115
Newbent Coal Co	1	Pana	26,653	23,250	3,403
Morris Bros.....	1	Duquoin	25,146	24,706	440
Germantown Coal Co	1	Germantown ..	25,076	20,306	4,770
Ubben Coal Co	1	Pekin	25,000	25,000	.....
Humboldt Coal Co	1	Belleville.....	24,840	20,235	4,605
Saline County Coal Co.....	1	Harrisburg...	24,215	23,000	1,215

Table 15—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed or wasted at the mine.
Lake Erie Coal & Mining Co.....	1	East Peoria ..	21,220	21,220	.....
Peter Grant & Son	1	Peoria	20,935	17,090	3,845
James Walker.....	1	Mapleton	20,600	20,000	600
Advance Coal Co	1	Marissa.....	20,000	18,400	1,600
Fred Murphy	1	Belleville.....	20,000	15,000	5,000
Little Muddy Coal Co.....	1	Tamaroa.	20,000	18,600	1,400
Sunbeam Coal Co	1	Belleville.....	19,707	19,307	400
East Peoria Coal Co.....	1	East Peoria ..	19,226	19,226	.....
Muncie Coal Co	1	Muncie	18,900	15,000	3,900
Elmwood Coal Co.....	1	Elmwood	18,240	16,120	2,120
Monarch Coal & Mining Co	1	Farmington...	18,198	16,015	2,183
Petersburg Coal Mining Co	1	Petersburg ...	17,816	15,063	2,753
German Coal Co.....	1	Peoria	17,670	14,228	2,442
Beggs-Davis Coal Co	1	Fairbury	16,830	1,182	15,648
Trutter Coal Co	1	Pleas't Plains	16,698	13,000	3,698
Third Vein Coal Co	1	Orchard Mine	16,420	16,200	220
Atlas Coal Co.....	1	Galva	15,888	11,851	4,037
Valley Coal Co	1	Petersburg ...	15,000	13,400	1,600
Jefferson County Fuel Co.....	1	Mt. Vernon...	15,000	1,000	14,000
Rippetoe & Rundle	1	Colchester ...	14,428	13,983	445
Essex & Fritz	2	.....	13,591	13,484	107
..do.....	1	Parrville	8,684	8,684	.....
..do.....	1	Cuba.....	4,907	4,800	107
Canton Coal & Mining Co	1	East Bryant.	12,000	11,800	200
Chicago & Carbondale Coal Co	1	Carbondale...	12,000	11,000	1,000
Millstadt Coal Co	1	Millstadt	12,000	10,000	2,000
New Moon Mining Co.....	1	Duquoin	11,991	7,427	4,564
Chicago-Coulterville Coal Co	1	Coulterville...	11,125	9,307	1,818
Wyoming Coal Co.....	1	Wyoming.....	11,000	9,600	1,400
A. M. Barrackman	1	Streator	10,928	9,101	1,827
A. E. Powell & Co.....	1	Coulterville...	10,487	9,887	600
Bunting Bros.....	1	Grape Creek..	10,354	4,683	5,671

Table 15—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed or wasted at the mine.
Home Coal Co.....	1	Mt. Pulaski...	9,060	2,259	6,801
Donnelly & Koenucke Coal Co.....	1	Carterville ...	8,259	7,689	570
New Coal Co.....	1	Harrisburg...	8,007	7,769	238
Merldeth Bros.....	1	Augusta.....	7,700	7,700	.....
Spoon River Coal Co.....	1	Ellisville.....	7,535	5,900	1,635
Dutch Hill Coal Co.....	1	New Athens..	7,143	4,350	2,793
Glgby, Cusack & Edwards	1	Edwards	6,890	6,890	.....
Gallatia Coal Co.....	1	Gallatia.....	6,825	2,960	3,865
Lilliman Coal Co	1	Cable	6,400	5,100	1,300
Raymond Coal Co.....	1	Raymond.....	6,345	1,273	5,072
The Berwick Coal Co	1	Chenoe.....	6,300	1,750	4,550
Oakwood Coal Co	1	Oakwood.....	6,103	3,000	3,103
George R. Watson.....	1	Wyoming.....	5,958	4,040	1,918
Kinmundy Coal Co.....	1	Kinmundy ...	5,923	2,687	3,236
Salem Coal Co.....	1	Salem.....	5,315	782	4,533
North Wilmington Coal Co.....	1	Seneca.....	5,241	1,080	4,161
France Bros	1	Fairmount ...	5,000	300	4,700
Terminal Coal Co	1	Edwardsville..	4,796	4,556	240
Yates City Coal Co.....	1	Yates City...	4,576	2,604	1,972
Star Coal Co.....	1	Vandercook ..	4,500	2,250	2,250
Rodell & Mitchell.....	1	Wataga.....	4,447	2,055	2,392
*Middletown Coal Co	1	Middletown ..	4,200	.....	4,200
Moffatt Coal Co.....	1	Sparta.....	4,171	4,078	93
Strait Coal Co	1	Pinckneyville	4,000	2,000	2,000
Briar Bluff Coal Co	1	Briar Bluff...	3,395	2,395	1,000
Carterville & Big Muddy Coal Co	1	Carterville ...	3,250	3,100	150
Interstate Coal & Mining Co.....	1	Worden.....	3,000	2,640	360
Hardy Harris & Sons.....	1	Fairmount ...	2,500	300	2,200
James Thompson	1	Grape Creek..	2,450	2,000	450
B. B. Peterson.....	1	Cable	2,400	1,200	1,200
Alex Anderson & Sons.....	1	Streator.....	1,862	1,311	551
Benj. Davis & Son	1	Streator.....	1,773	730	1,043

Table 15—Concluded.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed or wasted at the mine.
Wm. Winhaus.....	1	Danville	1,500	150	1,350
Clover Coal & Mining Co.....	1	New Douglas.	1,210	475	735
Kistler & Bookmann.....	1	Danville	1,205	390	815
East Side Coal Co.....	1	Equality.....	1,063	888	175
John Hall	1	Grape Creek..	1,060	700	360
John Listard.....	1	Grape Creek..	900	900	.....
J. C. Dawson	1	Deer Park	700	650	50
Blue & Henry	1	Grape Creek..	675	450	225
Chas. Michaels	1	Fancher	200	120	80
Total	353	.....	33,676,537	30,084,387	3,592,150

* This is a shipping mine but report does not show amount shipped.

The foregoing list presents 260 operators, of which 215 are corporations, 25 firms and 20 individuals, who manage or operate 353 mines, and have handled 33,676,537 tons of coal; the tonnage represents 96 3/4 per cent of the total output of the State for the year. Of the total output of these mines 30,084,387 tons or 89.33 per cent was loaded on to cars at the mines for shipment, leaving 10.67 per cent, which was sold to the local trade or consumed and wasted at the mines.

The Consolidated Coal company again leads the list this year with 20 mines and an output of 2,037,014 tons. The Kelleyville Coal company, Spring Valley coal company, Madison Coal company, Chicago, Wilmington and Vermilion Coal company, and Springfield Coal and Mining company follow respectively, with outputs exceeding 1,000,000 tons, making six companies showing a production of over 1,000,000 tons. Last year there were only four companies with this large tonnage.

GRADED OUTPUT FOR THE YEAR.

The performance of the mines of the State this year was 34,495,400 tons, apportioned as to grades as shown in the following table:

TABLE 16—*Output of the Shipping and Local Mines of the State, with Tons of the Different Grades of Coal, by Districts—1903.*

DISTRICT.	TOTAL OUTPUT— TONS.	TONS OF THE DIFFERENT GRADES OF COAL.					
		Mine Run.	Lump.	Egg.	Nut.	Pea or Screen- ings.	Slack or Waste.
First	3,553,136	388,981	2,066,789	165,979	122,269	718,530	90,588
Second	2,991,168	211,812	2,071,640	97,220	46,161	307,494	256,841
Third	2,319,691	561,925	1,241,339	43,051	123,250	247,490	102,636
Fourth	4,573,052	2,952,037	1,088,180	36,068	128,591	231,495	136,681
Fifth	6,990,197	2,048,172	3,233,670	106,752	238,918	979,788	382,897
Sixth	7,656,451	2,241,257	3,861,289	27,340	316,612	972,618	237,335
Seventh	5,592,842	1,492,903	1,606,949	515,968	765,592	1,020,971	190,459
Shipping mines ...	33,676,537	9,897,087	15,169,856	992,375	1,741,393	4,478,386	1,397,437
Local mines	1,278,863	476,011	704,653	2,785	14,311	62,045	19,058
Total	34,955,400	10,373,098	15,874,509	995,163	1,755,704	4,540,431	1,416,495

The increase in the product of the shipping mines is 16.83 per cent over that of last year; the tons of the different grades are distributed nearly the same as the year before, although there is a large increase this year in the tons of slack or waste coal. The tonnage of the local mines has increased only 6.88 per cent over last year. The slack or waste coal of the local mines is 61 per cent less than returned last year.

This division of the different grades of coal produced is further set forth in the following table of percentages:

TABLE 17.—*Percentages of the Total Output of the Different Grades of Coal, Shipping and Local Mines, by Districts*

DISTRICT.	PER CENT OF TOTAL OUTPUT.	PERCENTAGES OF THE DIFFERENT GRADES OF COAL.					
		Mine Run.	Lump.	Egg.	Nut.	Pea or Screen- ings.	Slack or Waste.
First	10.55	10.95	58.17	4.67	3.44	20.22	2.55
Second	8.88	7.08	69.26	3.25	1.54	10.28	8.59
Third	6.89	24.22	53.51	1.86	5.31	10.67	4.43
Fourth	13.58	64.55	23.80	.79	2.81	5.06	2.99
Fifth	20.76	29.30	46.26	1.53	3.42	14.01	5.48
Sixth	22.73	29.27	50.43	.36	4.14	12.70	3.10
Seventh	16.61	26.69	28.73	9.23	13.69	18.25	3.41
Shipping mines...	100.00	29.39	45.04	2.95	5.17	13.30	4.15
Local mines	100.00	37.22	55.10	.22	1.12	4.85	1.49

It will be seen that the sixth district produced nearly one-fourth of the tonnage of the State. The third district shows the lowest per cent. The fifth, sixth and seventh districts combined furnished 60.10 per cent of the total output of the shipping mines. This is the fourth year that the total tonnage of the State has been divided into different grades in these reports.

The following table presents the record for the four years, giving the total tons and the percentages:

TABLE 18.—*Total Output of the Different Grades of Coal, all Mines, for Four Years, with Percentages.*

YEAR.	Total output— tons.	TONS OF THE DIFFERENT GRADES OF COAL.					
		Mine run.	Lump.	Egg.	Nut.	Pea or Screen- ings.	Slack or Waste.
1900.....	25,153,929	5,554,637	13,927,899	495,637	1,323,582	2,811,520	1,040,874
1901.....	26,635,319	6,882,740	13,321,124	486,596	1,217,127	3,667,591	1,060,141
1902.....	30,021,300	6,986,204	15,041,673	680,985	1,586,456	4,604,232	1,121,750
1903.....	34,955,400	10,373,098	15,874,509	995,163	1,755,704	4,540,431	1,416,495
Percentages:							
1900.....		22.08	55.37	1.97	5.26	11.18	4.14
1901.....		25.84	50.01	1.83	4.57	13.77	3.98
1902.....		23.27	50.10	2.27	5.28	15.34	3.74
1903.....		29.70	45.41	2.84	5.02	12.99	4.05

The most noticeable change is the increased percentage of mine run coal over preceding years, and the decrease in lump coal.

The following is a comparative table of the output of all mines for three years, by districts:

TABLE 19.—*Output for the years 1901, 1902 and 1903, Compared by Districts.*

DISTRICT.	TOTAL OUTPUT—TONS.			Gain 1902 over 1901.	Gain 1903 over 1902.	PERCENTAGES OF GAIN	
	1901.	1902.	1903.			1902 over 1901.	1903 over 1902.
First.....	3,568,193	3,729,724	3,748,651	161,526	18,927	4.53	.51
Second	2,770,413	3,104,516	3,245,781	334,103	141,265	12.06	4.55
Third	1,985,205	2,413,463	2,708,350	428,258	294,887	21.57	12.22
Fourth	3,253,160	3,939,864	4,772,284	686,704	832,420	21.1	21.13
Fifth	5,416,504	6,213,386	7,070,903	796,882	857,517	14.71	13.80
Sixth	5,796,566	6,241,847	7,734,831	445,261	1,492,984	7.6	23.92
Seventh	3,845,253	4,378,500	5,674,600	533,247	1,296,100	12.22	29.60
The State	26,635,319	30,021,300	34,955,400	3,385,981	4,934,100	12.71	16.43

Each district shows a gain for 1902 over 1901 and 1903 over 1902. The most prominent gain for this year over last, is shown in the fourth, sixth and seventh districts.

MINES, MEN AND TONS.

The following table presents in totals, the mines, men and tons, for a series of 22 years:

TABLE 20.—*Output of the State for Twenty-two Years and the Mines and Men Producing the Same.*

YEAR.	Mines.	Men.	Total output. (Tons.)	Tons of lump.	Tons of other grades.	PERCENTAGE OF—	
						Lump.	Other grades.
1882	704	20,290	11,017,069	9,115,653	1,901,506	.....	.....
1883	639	28,939	12,123,456	10,030,991	2,092,465	.....	.....
1884	741	25,575	12,208,075	10,101,005	2,107,070	.....	.....
1885	778	25,946	11,834,459	9,791,874	2,402,585	.....	.....
1886	787	25,846	11,175,241	9,246,435	1,928,806	.....	.....
1887	801	26,804	12,423,066	10,278,890	2,144,176	.....	.....
1888	822	29,410	14,328,181	11,855,188	2,472,993	.....	.....
1889	854	30,076	14,017,293	11,597,963	2,419,335	.....	.....
1890	936	28,574	15,274,727	12,638,364	2,636,363	82.74	17.26
1891	918	32,951	15,660,698	12,960,224	2,700,474	82.76	17.24
1892	839	33,632	17,862,276	14,730,963	3,131,313	82.47	17.53
1893	788	35,390	19,949,564	16,112,899	3,836,665	80.77	19.23
1894	836	39,477	17,113,576	13,865,284	3,248,292	81.02	18.98
1895	874	38,630	17,735,864	14,045,962	3,689,902	79.25	20.75
1896	901	37,057	19,786,626	14,210,024	5,576,602	71.86	28.14
1897	853	33,788	20,072,758	14,672,241	5,400,517	73.10	26.90
1898	831	35,026	18,699,299	14,208,795	4,390,504	76.39	23.61
1899	889	36,991	23,434,445	17,427,598	6,006,847	74.37	25.63
1900	920	39,384	25,153,929	13,927,899	11,226,030	44.63	55.37
1901	915	44,143	26,635,319	13,321,124	13,314,195	50.01	49.99
1902	915	46,005	30,021,300	15,041,673	14,979,627	50.10	49.90
1903	927	49,814	34,955,400	15,874,509	19,080,891	45.41	54.59

This table also shows the separation of the tonnage into lump and other grades, with percentages for each for 14 years.

The record of the number of men employed and tons produced, with percentages of gain or loss, is presented for 22 years in the following table:

TABLE 21—*Total Number of Men and Total Tons Produced, with Percentage of Gain or Loss for Twenty-two Years.*

YEAR	Men.	Total output. Tons.	PERCENTAGE OF MEN.		PERCENTAGE OF TONS.	
			Gain.	Loss.	Gain.	Loss.
1882.....	20,290	11,017,069				
1883.....	23,939	12,123,456	17.98		10.04	
1884.....	25,575	12,208,075	6.83		.70	
1885.....	25,946	11,834,459	1.35			3.06
1886.....	25,846	11,175,241		.39		5.57
1887.....	26,804	12,423,066	3.71		11.17	
1888.....	29,410	14,328,181	9.72		15.34	
1889.....	30,076	14,017,298	2.26			2.17
1890.....	28,574	15,274,727		4.99	8.97	
1891.....	32,951	15,660,698	15.32		3.53	
1892.....	33,632	17,862,276	2.07		14.06	
1893.....	35,390	19,949,564	5.23		11.69	
1894.....	33,477	17,113,576	8.72			14.22
1895.....	38,630	17,735,864	.40		3.64	
1896.....	37,057	19,786,626		4.07	11.56	
1897.....	33,783	20,072,758		8.82	1.45	
1898.....	35,026	18,599,299	3.66			7.31
1899.....	36,991	23,434,445	5.61		26.00	
1900.....	39,384	25,153,929	6.47		7.34	
1901.....	44,143	26,635,319	12.08		5.89	
1902.....	46,005	30,021,300	4.22		12.71	
1903.....	49,814	34,955,400	8.28		16.44	

It will be seen that the number of men employed show a gain every year excepting four, while there is a gain of tonnage every year excepting five. The gain in the number of men employed this year over the number employed in 1882 is 145.50 per cent, while the gain in the number of tons produced in the same period is 217.28 per cent.

The tonnage of the State, produced in the several districts, is presented by percentages in the following table for a series of 13 years:

TABLE 22—*Percentages of the Tonnage of the Total Output of the State, produced by each District, for a Series of 13 Years.*

YEAR.	DISTRICTS						
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.
1891.....	19.69	9.20	17.84	28.27	25.00	.....	.....
1892.....	19.36	9.70	18.26	28.65	24.03	.....	.....
1893.....	17.02	10.03	17.03	28.99	26.93	.....	.....
1894.....	15.69	9.95	17.99	30.23	26.14	.....	.....
1895.....	15.42	11.25	16.65	31.65	25.03	.....	.....
1896.....	15.34	13.60	3.15	14.17	23.70	19.08	10.93
1897.....	14.64	13.64	2.87	14.53	24.95	17.73	11.64
1898.....	11.88	13.71	3.89	13.83	21.10	18.60	16.99
1899.....	15.08	14.19	3.11	14.33	20.53	18.28	14.48
1900.....	14.72	9.75	7.94	14.05	19.15	20.81	13.58
1901.....	13.40	10.40	7.45	12.22	20.33	21.76	14.44
1902.....	12.42	10.34	8.04	13.12	20.70	20.79	14.59
1903.....	10.73	9.29	7.75	13.65	20.22	22.13	16.23

Five of the years shown in this table, the state was divided into only five districts, while for the other eight years there are seven districts. For this year the fourth, sixth and seventh districts show an increase in tonnage over last year, while the other four districts show a decrease. This year the collieries in the fifth, sixth and seventh districts produced 58.58 per cent of the total output of the state.

HAULAGE IN THE MINES.

The method of haulage in the shipping mines is shown in the following table, by districts:

It will be noticed that haulage by electricity has increased over last year 40 per cent in the number of mines and 46.49 per cent in tons hauled. The percentage of haulage by horses or mules shows that this system largely prevails both as to number of mines and tons delivered.

OUTPUT BY COUNTIES.

The 17 counties which have each produced over 500,000 tons of coal during the past five years, are presented in the following table:

TABLE 25.—*Relative Rank of the Counties of the State Producing 500,000 Tons of Coal or over for a Series of Five Years.*

County.	Rank.	Tonnage 1903.	Rank.	Tonnage 1902.	Rank.	Tonnage 1901.	Rank.	Tonnage 1900.	Rank.	Tonnage 1899.
Sangamon	1	4,386,526	1	3,672,989	1	2,919,223	1	2,519,911	2	2,053,572
St. Clair.....	2	3,134,679	2	2,578,553	2	2,618,847	2	2,253,883	4	1,849,474
Vermillion.....	3	2,893,233	3	2,558,371	4	2,003,780	3	2,030,954	1	2,221,867
Williamson	4	2,711,767	5	2,013,692	6	1,605,960	9	1,133,607	9	1,078,755
Madison.....	5	2,651,587	6	1,956,271	7	1,595,081	6	1,441,650	7	1,403,977
Macoupin	6	2,223,055	4	2,075,253	3	2,115,319	5	1,848,796	5	1,646,674
LaSalle.....	7	1,817,555	7	1,894,610	5	1,833,561	4	2,027,864	3	1,975,939
Bureau	8	1,778,302	8	1,732,813	8	1,549,056	7	1,338,231	6	1,410,524
Grundy	9	1,457,935	9	1,353,336	9	1,293,092	8	1,299,863	8	1,280,332
Fulton.....	10	1,036,496	10	889,679	14	646,400	14	665,439	13	601,094
Perry.....	11	1,031,751	14	789,625	13	664,278	13	680,653	10	879,422
Marion	12	1,002,047	11	681,821	11	829,326	11	840,814	..	.....
Jackson	13	972,284	12	853,056	10	911,245	10	893,311	11	875,711
Christian.....	14	926,563	15	725,088	16	578,482	15	652,662	14	572,459
Peoria	15	920,716	13	824,270	12	710,582	12	727,737	12	744,698
Clinton.....	16	870,618	16	724,462	15	644,664	16	535,601	..	.....
Mercer	17	648,070	17	602,722	17	563,603	17	501,065	..	.....
Total—Counties and tons.....	17	30,423,094	17	26,156,611	17	22,982,499	17	21,382,041	14	18,624,485

This is the fourth year that each of these counties have supplied over a half a million tons of coal, the lowest this year is 648,070 tons: their total tonnage represents 87 per cent of the entire output of the State, and is an increase of 26 per cent over the tonnage of the same counties in 1900. Sangamon county, for the fourth year, ranks as number one, with 4,386,526 tons, being 1,251,847 tons more than St. Clair county, ranking next highest in the list.

Table 26, following, presents the 53 counties of the State producing coal; giving the number of the district in which situated; the total number of mines, men and tons in each county, and the same data for both shipping and local mines:

TABLE 26—*Coal Producing Counties of the State, Giving Number of Districts, Mines, Men and Tons, of Shipping and Local Mines—1903.*

COUNTY.	Dis- trict.	ALL MINES.			SHIPPING MINES.			LOCAL MINES.		
		Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
Bond.....	6	1	180	176,000	1	180	176,000	.....	.....	.....
Brown.....	5	10	11	1,585	.....	.....	.....	10	11	1,585
Bureau.....	2	20	4,053	1,778,302	7	3,967	1,751,929	13	86	26,373
Calhoun.....	5	1	20	4,928	.....	.....	.....	1	20	4,928
Cass.....	3	2	13	2,807	.....	.....	.....	2	13	2,807
Christian.....	4	8	1,413	926,563	7	1,401	923,563	1	12	3,000
Clinton.....	6	6	941	870,518	6	941	870,518	.....	.....	.....
Fulton.....	3	63	1,677	1,036,496	16	1,481	966,721	47	196	69,775
Gallatin.....	7	9	129	45,400	2	57	36,550	7	32	8,850
Greene.....	5	7	26	4,497	.....	.....	.....	7	26	4,497
Grundy.....	1	22	3,203	1,457,935	12	3,127	1,435,527	10	76	22,408
Hamilton.....	7	2	6	700	.....	.....	.....	2	6	700
Hancock.....	3	6	38	11,340	1	12	7,700	5	26	3,640
Henry.....	2	31	335	130,663	3	131	58,733	28	207	71,930
Jackson.....	7	23	1,355	972,284	8	1,302	959,264	15	53	13,020
Jefferson.....	7	2	33	15,100	1	31	15,000	1	2	100
Jersey.....	5	6	15	2,790	.....	.....	.....	6	15	2,790
Johnson.....	7	5	12	2,545	.....	.....	.....	5	12	2,545
Kankakee.....	1	1	145	58,195	1	145	58,195	.....	.....	.....
Knox.....	2	41	279	84,575	3	108	39,373	38	171	45,202
LaSalle.....	1	35	3,617	1,877,555	14	3,401	1,737,699	21	216	139,856
Livingston.....	1	14	645	319,350	6	567	288,599	8	78	30,751
Logan.....	4	4	490	373,251	4	490	373,251	.....	.....	.....
Macon.....	4	3	272	130,798	2	153	78,947	1	119	51,851
Macoupin.....	5	22	2,695	2,223,055	13	2,647	2,210,323	9	48	12,732
Madison.....	6	31	2,915	2,551,687	17	2,826	2,522,607	14	89	28,980
Marion.....	6	6	1,146	1,002,047	6	1,146	1,002,047	.....	.....	.....
Marshall.....	2	15	907	465,079	3	877	460,003	12	30	5,076
McDonough....	3	56	243	43,394	1	63	14,428	55	180	28,966

Table 26—Concluded.

COUNTY.	Dis- trict.	ALL MINES.			SHIPPING MINES.			LOCAL MINES.		
		Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
McLean.....	4	3	396	220,611	3	396	220,611	.....	.....	.....
Menard.....	3	16	667	492,328	8	618	476,409	8	49	15,919
Mercer.....	2	16	932	648,070	6	876	628,962	10	56	19,108
Montgomery...	5	5	632	420,312	5	632	420,312	.....	.....	.....
Morgan.....	5	2	13	3,840	.....	.....	.....	2	13	3,840
Peoria.....	3	69	1,323	920,716	19	981	734,957	50	342	185,729
Perry.....	7	26	1,763	1,031,751	20	1,734	1,027,031	6	29	4,720
Randolph.....	7	14	586	478,125	11	572	469,235	3	14	8,890
Rock Island....	2	17	161	85,700	1	54	35,210	16	107	50,490
Saline.....	7	16	455	354,172	6	424	343,769	10	31	5,403
Sangamon.....	5	30	4,909	4,386,526	28	4,860	4,359,562	2	49	26,964
Schuyler.....	3	15	69	15,734	.....	.....	.....	15	69	15,734
Scott.....	5	18	72	23,370	.....	.....	.....	18	72	23,370
Shelby.....	4	8	212	108,149	2	145	95,942	6	67	12,207
Stark.....	2	22	138	39,406	2	59	16,958	20	79	22,448
St. Clair.....	6	69	3,172	3,134,679	53	3,086	3,085,279	16	86	49,400
Tazewell.....	3	16	333	185,535	5	200	119,446	11	133	66,089
Vermillion.....	4	60	3,718	2,893,233	26	3,464	2,761,059	34	254	132,174
Wabash.....	7	3	18	4,800	.....	.....	.....	3	18	4,800
Warren.....	2	19	52	13,966	.....	.....	.....	19	52	13,966
Washington....	7	3	92	57,956	1	62	39,000	2	30	18,956
Will.....	1	2	107	35,616	1	100	33,116	1	7	2,500
Williamson....	7	31	2,907	2,711,767	21	2,868	2,697,993	10	39	13,774
Woodford.....	4	1	270	119,679	1	270	119,679	.....	.....	.....
53 Counties.....	.....	933	49,814	34,955,400	353	46,494	33,676,537	580	3,320	1,278,863

The foregoing table fully sets forth the coal industry of the State, giving the localities wherein this very important and assiduous branch of the state's wealth and resources is being developed, and carried forward. Illinois is second in rank of the coal producing states, and has been for many years, Pennsylvania being first.

In these 53 counties 49,814 men were employed during the year, two of the counties, Sangamon and Bureau, each employed over 4,000 men; four counties, Vermillion, LaSalle, Grundy and St. Clair, each employed over 3,000 men; three counties, Madison, Williamson,

and Macoupin each employed over 2,000 men. The nine counties here named employed 31,189 men, or 62.61 per cent of the total number employed in all the counties.

Referring to the tons produced in each county, as has been stated, Sangamon county leads all other counties with an output of 4,386,526 tons. This output exceeds that of the State of Missouri for this year by 121,198 tons. The combined output of six counties, Sangamon, St. Clair, Vermilion, Williamson, Madison and Macoupin, each exceeding over 2,000,000 tons, produced 17,900,847 tons, being a larger tonnage than any State excepting West Virginia and Ohio.

DISPOSITION OF THE OUTPUT.

The following table presents the disposal of the product by districts:

TABLE 27—*Disposition of the Output of Shipping Mines, by Districts, also Local Mines.*

District.	Total output of all grades—Tons.	Tons shipped from mines.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons used and wasted at the mines
First.....	3,553,136	3,092,974	119,268	180,215	160,679
Second.....	2,991,168	2,766,006	49,661	72,352	103,149
Third.....	2,319,691	2,168,685	42,424	49,214	59,368
Fourth.....	4,573,052	3,960,498	192,159	278,129	142,266
Fifth.....	6,990,197	6,197,834	183,149	361,409	247,805
Sixth.....	7,656,451	6,800,290	303,984	189,582	357,595
Seventh.....	5,592,842	5,098,100	205,045	75,129	214,568
Shipping mines.....	33,676,537	30,084,387	1,100,690	1,206,030	1,285,430
Local mines.....	1,278,863	.....	16,553	1,110,784	151,526
The State.....	34,955,400	30,084,387	1,117,243	2,316,814	1,436,956

The total tons loaded on cars at the mines for shipment was 30,084,387; this is 4,410,118 tons more than was shipped last year. The tonnage of shipping mines supplied to the local trade was 12 per cent more than last year.

Reduced to percentages the following table presents the results:

TABLE 28—*Percentages of the Output of Shipping and Local Mines, also Percentages of the Distribution, by Districts, 1903.*

DISTRICT.	PERCENTAGES OF—				
	Total output.	Tons shipped.	Tons to locomotives.	Tons sold to local trade.	Tons consumed or wasted at the mines.
First	10.55	87.05	3.36	5.07	4.52
Second	8.88	92.47	1.66	2.42	3.45
Third	6.89	93.49	1.83	2.12	2.56
Fourth	13.58	86.61	4.20	6.08	3.11
Fifth	20.75	88.66	2.62	5.17	3.55
Sixth	22.74	85.82	4.03	2.48	4.67
Seventh	16.61	91.15	3.67	1.34	3.84
Shipping mines	100.00	89.33	3.27	3.59	3.81
Local mines	100.00	.....	1.29	86.86	11.85

The following table shows the total tons produced by shipping mines with the percentages of distribution for four years, also the output of local mines and percentages of distribution of local mines:

TABLE 29—*Total Output of the Shipping Mines of the State, also Percentages of the Distribution for Four Years.*

SHIPPING MINES.

YEAR.	PERCENTAGES OF—				
	Total output.	Tons shipped.	Tons supplied to locomotives.	Tons sold to local trade.	Tons consumed or wasted at the mines.
1900	24,056,996	87.33	3.42	5.12	4.13
1901	25,526,816	88.34	3.46	4.12	4.08
1902	28,824,750	89.07	3.30	3.74	3.89
1903	33,676,537	89.33	3.27	3.59	3.81

LOCAL MINES.

YEAR.	PERCENTAGES OF—				
	Total output.	Tons shipped.	Tons supplied to locomotives.	Tons sold to local trade.	Tons consumed or wasted at the mines.
1900	1,096,933	.....	5.66	85.57	8.77
1901	1,108,503	.....	5.84	96.62	7.54
1902	1,196,550	.....	1.54	89.05	9.41
1903	1,278,863	.....	1.29	86.86	11.85

Referring to the shipping mines, it will be seen that the changes are very slight from year to year in the disposition of the output of these mines. The most notable change in this regard, of the local mines, is the decline for the past two years in the quantity of coal furnished to locomotives, and the increase this year in the tons consumed or wasted at the mines.

From this table it will be seen that from 87 to 93 per cent of the tonnage of each district is loaded onto cars and shipped from the mines, while for the state the tons shipped and supplied to locomotives at the mines is 93 per cent of the total output of the shipping mines.

The total tonnage of coal produced in each county and its distribution is shown in the following table, by districts:

TABLE 30.—*Disposition of the Output of Shipping Mines by Counties and Districts.*

FIRST DISTRICT.

County.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed or wasted at the mines
Grundy	12	1,435,527	1,339,167	.....	29,300	67,060
Kankakee	1	58,195	47,318	.....	1,926	8,951
LaSalle	14	1,737,699	1,443,332	108,179	112,196	73,993
Livingston	6	288,599	238,236	11,089	29,694	9,580
Will	1	33,116	24,921	.....	7,100	1,095
The district	34	3,553,136	3,092,974	119,268	180,215	160,679
Percentages .....	.....	100.00	87.05	3.36	5.07	4.52
Local mines	40	195,515	.....	875	74,104	120,536

Table 30—Continued.

SECOND DISTRICT.

County.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons con- sumed or wasted at the mines
Bureau	7	1,751,929	1,648,600	15,939	26,463	60,927
Henry	3	58,733	46,696	.....	11,037	1,000
Knox	3	39,373	33,869	920	3,924	660
Marshall.....	3	460,003	386,690	31,179	18,707	23,427
Mercer.....	6	628,962	602,426	1,623	9,378	15,535
Rock Island.....	1	35,210	34,085	.....	325	800
Stark	2	16,958	13,640	.....	2,518	800
The district	25	2,991,168	2,766,006	49,661	72,352	103,149
Percentages.....	.....	100.00	92.47	1.66	2.42	3.45
Local mines.....	156	254,613	.....	.....	241,699	12,914

THIRD DISTRICT.

County.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons con- sumed or wasted at the mines
Fulton	16	966,721	894,962	33,102	14,368	24,259
Hancock.....	1	7,700	7,700	.....	.....	.....
McDonough.....	1	14,428	13,983	.....	.....	445
Menard	8	476,409	426,475	3,377	25,479	21,078
Peoria	19	734,987	706,119	5,945	9,367	13,556
Tazewell	5	119,446	119,446	.....	.....	.....
The district.....	50	2,319,691	2,168,685	42,424	49,214	59,368
Percentages.....	.....	100.00	93.49	1.83	2.12	2.56
Local mines.....	193	388,659	.....	.....	388,359	300

Table 30--Continued.

FOURTH DISTRICT.

County.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons con- sumed or wasted at the mines
Christian	7	923,563	759,757	70,807	46,249	46,750
Logan	4	373,251	300,307	21,370	39,825	11,749
Macon	2	78,947	55,548	.....	23,399	.....
McLean	3	220,611	69,948	46,152	88,208	16,303
Shelby	2	95,942	66,490	14,551	9,850	5,051
Vermillion	26	2,761,059	2,607,922	34,000	62,500	56,637
Woodford	1	119,679	100,526	5,279	8,098	5,776
The district.....	45	4,573,052	3,960,498	192,159	278,129	142,266
Percentages.....	.....	100.00	86.61	4.20	6.08	3.11
Local mines.....	42	199,232	.....	.....	191,447	7,785

FIFTH DISTRICT.

County.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons con- sumed or wasted at the mines
Macoupin.....	13	2,210,323	1,965,710	83,645	65,720	95,248
Montgomery	5	420,312	367,239	3,320	34,789	14,964
Sangamon.....	28	4,359,562	3,864,885	96,184	260,900	137,593
The district.....	46	6,990,197	6,197,843	183,149	361,409	247,805
Percentages.....	.....	100.00	88.66	2.62	5.17	3.55
Local mines.....	55	80,706	.....	15,678	59,458	5,570

SIXTH DISTRICT.

County.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons con- sumed or wasted at the mines
Bond.....	1	176,000	168,000	.....	4,000	4,000
Clinton	6	870,518	754,509	36,000	14,382	65,627
Madison	17	2,522,607	2,354,940	35,135	36,228	96,304
Marion	6	1,002,047	740,226	148,572	52,749	60,500
St. Clair.....	53	3,035,279	2,782,615	89,277	82,223	131,164
The district.....	83	7,656,451	6,800,290	308,984	189,582	357,595
Percentages.....	.....	100.00	88.82	4.03	2.48	4.67
Local mines.....	30	70,380	.....	.....	75,590	2,790

Table 30--Concluded.

SEVENTH DISTRICT.

County.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons con- sumed or wasted at the mines
Gallatin	2	36,550	31,819	1,646	1,103	1,982
Jackson	8	959,264	836,110	55,454	4,371	63,329
Jefferson	1	15,000	1,000	5,000	8,500	500
Perry	20	1,027,031	860,477	114,438	29,927	22,189
Randolph.....	11	469,235	430,426	9,600	7,092	22,117
Saline.....	6	348,769	318,451	16,200	9,538	4,580
Washington.....	1	39,000	35,000	.....	2,000	2,000
Williamson	21	2,697,993	2,584,817	2,707	12,598	97,871
The district.....	70	5,592,842	5,098,100	205,045	75,129	214,568
Percentages.....	.....	100.00	91.15	3.67	1.34	3.84
Local mines.....	64	81,758	.....	.....	80,127	1,631

The foregoing gives the coal operations in each county for the year, so far as relates to the tonnage and its disposure. The third, second and seventh districts show the largest percentages of coal shipped.

Following as a sequence to the preceding exhibit regarding the disposition of the year's production of coal, the following table is presented:

TABLE 31.—*Railroads which have hauled the Coal Output of Shipping Mines of the State and the Tonnage Contributed to each Road, by Counties—1903.*

Number.	RAILROADS AND COUNTIES.	Number mines.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE—	
			Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
1	Illinois Central—20 counties.....	91	7,390,485	373,550	100.00	100.00
	Williamson	12	1,637,968	2,707	22.16	.72
	St. Clair.....	20	831,330	33,841	11.25	9.05
	Sangamon.....	8	752,484	4,031	10.18	1.07
	Marion.....	5	739,444	148,672	10.01	39.77
	Jackson.....	6	702,139	55,454	9.50	14.85
	Perry.....	16	700,728	33,120	9.48	8.87
	Madison.....	2	463,438	2,798	6.27	.75
	LaSalle.....	4	424,057	.....	5.74	.....
	Christian.....	3	258,623	10,675	3.50	2.86
	Macoupin.....	1	208,593	26,904	2.82	7.20
	Logan.....	2	186,609	19,570	2.53	5.24
	Randolph.....	4	160,261	.....	2.17	.....
	Marshall.....	1	97,181	.....	1.32	.....
	Shelby.....	1	66,370	14,551	.89	3.90
	McLean.....	1	49,448	17,652	.67	4.73
	Washington.....	1	35,000	.....	.47	.....
	Livingston.....	1	33,000	3,675	.45	.98
	Kankakee.....	1	25,353	.....	.34	.....
	Macon.....	1	15,500	.....	.21	.....
	Saline.....	1	2,960	.....	.04	.....
2	Chicago & Eastern Illinois—2 counties..	26	3,222,817	10,000	100.00	100.00
	Vermillion.....	17	2,275,968	10,000	70.62	100.00
	Williamson.....	9	946,849	.....	29.38	.....
3	Chicago & Alton—9 counties.....	33	2,814,314	19,841	.....	.....
	Sangamon.....	14	1,695,154	8,541	60.23	43.05
	Macoupin.....	6	758,254	.....	26.94	.....
	Menard.....	3	172,374	.....	6.13	.....
	Logan.....	2	113,695	1,800	4.04	9.07
	Will.....	1	24,921	.....	.89	.....
	LaSalle.....	3	24,356	.....	.87	.....
	Grundy.....	2	17,240	.....	.61	.....
	McLean.....	1	6,259	9,500	.22	47.88
	Livingston.....	1	2,067	.....	.07	.....
4	Wabash—10 counties.....	28	2,203,658	93,256	100.00	100.00
	Sangamon.....	10	811,218	25,800	36.81	27.66
	Macoupin.....	4	716,286	38,279	32.50	41.05
	Christian.....	2	326,782	25,857	14.82	27.73
	Vermillion.....	3	226,914	.....	10.30	.....
	Montgomery.....	2	62,164	3,320	2.82	3.56
	Macon.....	1	32,298	.....	1.47	.....
	Livingston.....	2	19,715	.....	.90	.....
	Kankakee.....	1	4,391	.....	.20	.....
	Madison.....	1	2,640	.....	.12	.....
	LaSalle.....	2	1,250	.....	.06	.....

Table 31—Continued.

Number.	RAILROADS AND COUNTIES.	Number mines.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE—	
			Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
5	Chicago, Burl. & Quincy—15 counties....	37	1,978,627	30,297	100.00	100.00
	Fulton.....	7	646,552	9,465	32.68	31.24
	LaSalle.....	7	528,469		26.71	
	Mercer.....	2	355,660	999	17.97	3.30
	Peoria.....	6	173,993		8.79	
	Macoupin.....	3	101,207	4,155	5.11	13.71
	Bureau.....	1	56,102		2.84	
	Bond.....	1	40,000		2.02	
	Henry.....	2	34,845		1.76	
	McDonough.....	1	13,933		.71	
	Stark.....	2	13,640		.69	
	Hancock.....	1	7,700		.39	
	Montgomery.....	1	3,200		.16	
	Knox.....	1	2,604		.13	
	Livingston.....	1	672		.04	
	Scott.....	1		15,678		51.75
6	Elgin, Joliet & Eastern—1 county.....	12	1,306,081		100.00	
	Grundy.....	12	1,306,081		100.00	
7	Chicago & Northwestern—1 county.....	6	1,278,412	16,814	100.00	100.00
	Bureau.....	6	1,278,412	16,814	100.00	100.00
8	Chicago, Peoria & St. Louis—4 counties.	15	1,137,950	49,149	100.00	100.00
	Madison.....	4	519,393	5,231	45.64	10.64
	Sangamon.....	5	287,310	40,541	25.25	82.49
	Menard.....	5	254,101	3,377	22.33	6.87
	Macoupin.....	1	77,146		6.78	
9	Baltimore & Ohio-S-W—5 counties.....	15	1,085,663	72,696	100.00	100.00
	Clinton.....	4	559,371	36,000	51.52	49.52
	St. Clair.....	5	328,662	289	30.27	40
	Christian.....	1	115,929	23,602	10.68	32.47
	Sangamon.....	4	80,919	12,805	7.46	17.61
	Marion.....	1	782		.07	
10	Louisville & Nashville—2 counties.....	15	966,064	44,494	100.00	100.00
	St. Clair.....	13	934,245	42,848	96.71	96.30
	Gallatin.....	2	31,819	1,646	3.29	3.70
11	Chl., Rock Island & Pac.—5 counties.....	12	839,781	108,803	100.00	100.00
	LaSalle.....	5	318,211	108,179	37.89	99.42
	Bureau.....	1	257,954		30.72	
	Mercer.....	4	246,766	624	29.39	.58
	Henry.....	1	11,851		1.41	
	Marshall.....	1	4,989		.59	
12	Cleveland, Cin., Chl. & St. L.—8 counties.	20	838,623	73,176	100.00	100.00
	Saline.....	5	315,491	16,200	37.62	22.14
	Montgomery.....	2	229,280		27.34	
	Vermilion.....	6	105,040	24,000	12.53	32.80
	Macoupin.....	2	99,059	12,803	11.81	17.50
	Christian.....	2	58,423	10,673	6.97	14.58
	Tazewell.....	1	25,000		2.98	
	McLean.....	1	6,250	9,500	.74	12.98
	LaSalle.....	1	80		.01	
13	Southern Railroad Co.—3 counties.....	13	807,277	16,799	100.00	100.00
	St. Clair.....	11	611,139	11,799	75.70	70.24
	Clinton.....	1	195,138		24.17	
	Jefferson.....	1	1,800	5,000	.13	29.7

STATISTICS OF LABOR.

Table 31—Continued.

Number.	RAILROADS AND COUNTIES.	Numbermiles	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE—	
			Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
14	St. Louis, Troy & Eastern—1 county.....	3	803,080	1,200	100.00	100.00
	Madison.....	3	803,080	1,200	100.00	100.00
15	Vandalia Line—2 counties.....	6	535,728	22,822	100.00	100.00
	Madison.....	5	527,978	22,822	98.55	100.00
	Macon.....	1	7,750	.....	1.45	.....
16	Mobile & Ohio—4 counties.....	9	495,368	77,018	100.00	100.00
	Randolph.....	4	227,841	.....	45.99	.....
	Jackson.....	2	133,972	.....	27.05	.....
	Perry.....	2	123,555	76,518	24.94	99.35
	St. Clair.....	1	10,000	500	2.02	.65
17	Atchison, Topeka & Santa Fe—5 counties	10	435,645	35,108	100.00	100.00
	Marshall.....	1	203,610	29,829	46.74	84.96
	LaSalle.....	2	107,921	.....	24.77	.....
	Woodford.....	1	100,526	5,279	23.07	15.04
	Grundy.....	3	15,846	.....	3.64	.....
	Livingston.....	3	7,742	.....	1.73	.....
18	Indiana, Illinois & Iowa—4 counties.....	6	284,436	.....	100.00	.....
	Livingston.....	2	173,858	.....	61.12	.....
	Bureau.....	1	56,102	.....	19.73	.....
	LaSalle.....	2	36,902	.....	12.97	.....
	Kankakee.....	1	17,574	.....	6.18	.....
19	Iowa Central—2 counties.....	6	278,062	2,945	100.00	100.00
	Peoria.....	4	173,748	2,945	62.49	100.00
	Fulton.....	2	104,314	.....	37.51	.....
20	Toledo, Peoria & Western—4 counties...	10	270,395	29,491	100.00	100.00
	Peoria.....	5	142,751	.....	52.79	.....
	Fulton.....	3	124,712	22,077	46.12	74.86
	McLean.....	1	1,750	.....	.65	.....
	Livingston.....	1	1,182	7,414	.44	25.14
21	Peoria & Pekin Union—2 counties.....	6	269,627	3,000	100.00	100.00
	Peoria.....	4	215,627	3,000	79.97	100.00
	Tazewell.....	2	54,000	.....	20.03	.....
22	Pawnee—1 county.....	1	221,490	1,200	100.00	100.00
	Sangamon.....	1	221,490	1,200	100.00	100.00
23	Toledo, St. Louis & Western—4 counties	4	201,190	.....	100.00	.....
	Bond.....	1	128,000	.....	63.62	.....
	Montgomery.....	1	72,595	.....	36.05	.....
	Madison.....	1	475	.....	.24	.....
	Shelby.....	1	120	.....	.06	.....
24	Toluca, Marquette & North'n—1 county.	1	80,930	1,350	100.00	100.00
	Marshall.....	1	80,930	1,350	100.00	100.00
25	St. L. & Belleville E. Ry. Co.—1 county.	2	67,239	.....	100.00	.....
	St. Clair.....	2	67,239	.....	100.00	.....
26	Lake Erie & Western—2 counties.....	3	46,696	9,500	100.00	100.00
	Tazewell.....	2	40,446	.....	86.62	.....
	McLean.....	1	6,250	9,500	13.38	100.00

Table 31—Concluded.

Number.	RAILROADS AND COUNTIES.	Number mines.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE—	
			Shipment	Locomotives.	Shipped.	Supplied to locomotives.
27	Illinois Southern—1 county.....	3	42,324	9,600	100.00	100.00
	Randolph	3	42,324	9,600	100.00	100.00
28	Alton Terminal—1 county.....	2	37,936	3,084	100.00	100.00
	Madison.....	2	37,936	3,084	100.00	100.00
29	Wabash, Chester & Western—1 county..	2	36,194	4,800	100.00	100.00
	Perry.....	2	36,194	4,800	100.00	100.00
30	Davenport, R. I. & Northwest'n—1 county	1	34,085	.....	100.00	.....
	Rock Island.....	1	34,085	.....	100.00	.....
31	Galesburg & Great Eastern—1 county...	2	31,265	920	100.00	100.00
	Knox.....	2	31,265	920	100.00	100.00
32	Fulton County Narrow Gauge—1 county.	3	19,384	1,560	100.00	100.00
	Fulton.....	3	19,384	1,560	100.00	100.00
33	Cin., Hamilton & Dayton—1 county.....	2	16,310	3,266	100.00	100.00
	Sangamon.....	2	16,310	3,266	100.00	100.00
34	Quincy, Carrollton & St. Louis—1 county	1	5,165	1,503	100.00	100.00
	Macoupin.....	1	5,165	1,503	100.00	100.00
	Total tons hauled by 34 railroads.....	.....	30,082,301	1,117,243	.....	.....
	Shipped by water, Ill. & Michigan Canal. ....	.....	2,086	.....	.....	.....
	Total State.....	.....	30,084,387	1,117,243	.....	.....

The Illinois Central railroad passes through 20 of the coal producing counties of the State, and during the year hauled 7,390,485 tons of coal to the markets. Williamson county again leads in the tonnage delivered to this road. The Chicago and Eastern Illinois railroad hauled the next largest tonnage, the product of only two counties. One of these counties, Vermilion, contributed the largest tonnage shipped by any one county over one road.

The 34 railroads represented in this table hauled 30,082,301 tons of coal to market during the year, being the product of 353 mines located in 40 counties. This enormous tonnage of only one product of the State, handled by less than one-third of the railroads of the State, may be better understood by a comparison with other traffic tonnage, handled by all the railroads in Illinois. The comparison clearly entitles the application of the epithet sometimes quoted, "That Coal is King." From the report of the Railroad and Warehouse

Commissioners of Illinois for the year ending June 30, 1903, it is found that for the year the freight tonnage traffic of the 118 railroads, classified as "products of agriculture," which includes grain, flour, other mill products, hay, tobacco, cotton, fruits and vegetables, and other articles, aggregated 18,836,828 tons; and the further total tonnage classified as the "product of animals," which includes live stock, dressed meats, other packing house products, poultry, game, fish, wool, hides, leather and other articles, aggregated 6,098,649 tons. These two classified products of the State, which include 13 distinctive items, besides two miscellaneous items of over 400,000 tons, originating in the State, together with the freight tonnage of like products received from connecting lines of railroads, all combined make a grand total of 24,935,477 tons transported by the 118 railroads of the State. As previously shown, the coal produced during the year by 353 mines, located in 40 counties, was 30,082,301 tons, and hauled by 34 railroads, and is an excess of 5,146,824 tons, or 20.65 per cent, over the combined tonnage of agricultural and animal products of the State, including the tonnage of like products received from points outside of Illinois.

The additional importance of the supply of coal furnished by this State and transported to the markets of the country is set forth in the following table:

TABLE 32—*Counties which have Produced the Commercial Coal of the State and the Tonnage Delivered to the Several Railroads in each for Transportation.*

Number.	Counties and Railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
1	Sangamon—6 roads	44	.....	3,864,885
	Chicago & Alton.....	14	1,695,154	43.87
	Wabash.....	10	811,218	20.99
	Illinois Central.....	8	752,484	19.47
	Chicago, Peoria & St. Louis	5	287,310	7.43
	Pawnee.....	1	221,490	5.73
	Baltimore & Ohio Southwestern	4	80,919	2.09
	Cincinnati, Hamilton & Dayton	2	16,310	.42
2	St. Clair—6 roads	52	.....	2,782,615
	Louisville & Nashville	13	934,245	33.58
	Illinois Central.....	20	831,330	29.88
	Southern R. R.....	11	611,139	21.96
	Baltimore & Ohio Southwestern	5	328,662	11.81
	St. Louis & Belleville Electric Ry.....	2	67,239	2.41
	Mobile & Ohio.....	1	10,000	.36

Table 32—Continued.

Number.	Counties and Railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
3	Vermillion—3 roads	26	.....	2,607,922
	Chicago & Eastern Illinois	17	2,275,968	87.27
	Wabash	3	226,914	8.70
	Cleveland, Cincinnati, Chicago & St. Louis	6	105,040	4.03
4	Williamson—2 roads	21	.....	2,584,817
	Illinois Central	12	1,637,968	63.37
	Chicago & Eastern Illinois	9	946,849	36.63
5	Madison—7 roads	18	.....	2,354,940
	St. Louis, Troy & Eastern	3	803,080	34.10
	Vandalia Line	5	527,978	22.42
	Chicago, Peoria & St. Louis	4	519,393	22.06
	Illinois Central	2	463,438	19.68
	Alton Terminal	2	37,936	1.61
	Wabash	1	2,640	.11
	Toledo, St. Louis & Western	1	475	.02
6	Macoupin—7 roads	18	.....	1,865,710
	Chicago & Alton	6	758,254	38.57
	Wabash	4	716,286	38.44
	Illinois Central	1	208,593	10.61
	Chicago, Burlington & Quincy	3	101,207	5.15
	Cleveland, Cincinnati, Chicago & St. Louis	2	99,059	5.04
	Chicago, Peoria & St. Louis	1	77,146	3.93
	Quincy, Carrollton & St. Louis	1	5,165	.26
7	Bureau—4 roads	9	.....	1,648,600
	Chicago & Northwestern	6	1,278,412	77.55
	Chicago, Rock Island & Pacific	1	257,984	15.65
	Chicago, Burlington & Quincy	1	56,102	3.40
	Indiana, Illinois & Iowa	1	56,102	3.40
8	LaSalle—8 roads	26	.....	1,441,246
	Chicago, Burlington & Quincy	7	528,469	36.67
	Illinois Central	4	424,057	29.42
	Chicago, Rock Island & Pacific	5	318,211	22.08
	Atchison, Topeka & Santa Fé	2	107,921	7.49
	Indiana, Illinois & Iowa	2	36,902	2.56
	Chicago & Alton	3	24,356	1.69
	Wabash	2	1,250	.09
	Cleveland, Cincinnati, Chicago & St. Louis	1	80	.....
9	Grundy—3 roads	17	.....	1,339,167
	Elgin, Joliet & Eastern	12	1,306,081	97.53
	Chicago & Alton	2	17,240	1.29
	Atchison, Topeka & Santa Fé	3	15,846	1.18
10	Fulton—4 roads	15	.....	894,962
	Chicago, Burlington & Quincy	7	646,552	72.24
	Toledo, Peoria & Western	3	124,712	13.93
	Iowa Central	2	104,314	11.66
	Fulton County Narrow Gauge	3	19,384	2.17
11	Perry—3 roads	20	.....	860,477
	Illinois Central	16	700,728	81.43
	Mobile & Ohio	2	123,555	14.36
	Wabash, Chester & Western	2	36,194	4.21
12	Jackson—2 roads	8	.....	836,110
	Illinois Central	6	702,138	83.98
	Mobile & Ohio	2	133,972	16.02

Table 32--Continued.

Number.	Counties and Railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
13	Christian—4 roads	8	.....	759,757
	Wabash	2	326,782	43.01
	Illinois Central	3	258,623	34.04
	Baltimore & Ohio Southwestern	1	115,929	15.26
	Cleveland, Cincinnati, Chicago & St. Louis	2	58,423	7.69
14	Clinton—2 roads	5	.....	754,509
	Baltimore & Ohio Southwestern	4	559,371	74.14
	Southern Ry.	1	195,138	25.86
15	Marion—2 roads	6	.....	740,226
	Illinois Central	5	739,444	99.89
	Baltimore & Ohio Southwestern	1	782	.11
16	Peoria—4 roads	19	.....	706,119
	Peoria & Pekin Union	4	215,627	30.54
	Chicago, Burlington & Quincy	6	173,993	24.64
	Iowa Central	4	173,748	24.60
	Toledo, Peoria & Western	5	142,751	20.22
17	Mercer—2 roads	6	.....	602,426
	Chicago, Burlington & Quincy	2	355,660	59.04
	Chicago, Rock Island & Pacific	4	246,766	40.96
18	Randolph—3 roads	11	.....	430,426
	Mobile & Ohio	4	227,841	52.94
	Illinois Central	4	160,261	37.23
	Illinois Southern	3	42,324	9.83
19	Menard—2 roads	8	.....	426,475
	Chicago, Peoria & St. Louis	5	254,101	59.58
	Chicago & Alton	3	172,374	40.42
20	Marshall—4 roads	4	.....	386,690
	Atchison, Topeka & Santa Fé	1	203,610	52.65
	Illinois Central	1	97,181	25.13
	Toluca, Marquette & Northern	1	80,930	20.93
	Chicago, Rock Island & Pacific	1	4,969	1.29
21	Montgomery—4 roads	6	.....	367,239
	Cleveland, Cincinnati, Chicago & St. Louis	2	229,280	62.43
	Toledo, St. Louis & Western	1	72,595	19.77
	Wabash	2	62,164	16.93
	Chicago, Burlington & Quincy	1	3,200	.87
22	Saline—2 roads	6	.....	318,451
	Cleveland, Cincinnati, Chicago & St. Louis	5	315,491	99.07
	Illinois Central	1	2,960	.93
23	Logan—2 roads	4	.....	300,307
	Illinois Central	2	186,609	62.14
	Chicago & Alton	2	113,698	37.86
24	Livingston—7 roads	11	.....	238,236
	Indiana, Illinois & Iowa	2	173,858	72.98
	Illinois Central	1	33,000	13.85
	Wabash	2	19,715	8.27
	Atchison, Topeka & Santa Fé	3	7,742	3.25
	Chicago & Alton	1	2,067	.87
	Toledo, Peoria & Western	1	1,182	.50
	Chicago, Burlington & Quincy	1	672	.28

Table 32—Continued.

Number.	Counties and Railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
25	Bond—2 roads	2	.....	168,000
	Toledo, St. Louis & Western	1	128,000	76.19
	Chicago, Burlington & Quincy	1	40,000	23.81
26	Tazewell—3 roads	5	.....	119,446
	Peoria & Pekin Union.....	2	54,000	45.21
	Lake Erie & Western.....	2	40,446	33.86
	Cleveland, Cincinnati, Chicago & St. Louis.....	1	25,000	20.93
27	Woodford—1 road.....	1	.....	100,526
	Atchison, Topeka & Santa Fé.....	1	100,526	100.00
28	McLean—5 roads	5	.....	69,948
	Illinois Central.....	1	49,448	70.68
	Chicago & Alton.....	1	6,250	8.94
	Cleveland, Cincinnati, Chicago & St. Louis.....	1	6,250	8.94
	Lake Erie & Western.....	1	6,250	8.94
	Toledo, Peoria & Western	1	1,750	2.50
29	Shelby—2 roads	2	.....	66,490
	Illinois Central.....	1	66,370	99.82
	Toledo, St. Louis & Western	1	120	.18
30	Macon—3 roads.....	3	.....	55,548
	Wabash.....	1	32,298	58.15
	Illinois Central.....	1	15,500	27.90
	Vandalia Line.....	1	7,750	13.95
31	Kankakee—3 roads.....	3	.....	47,318
	Illinois Central.....	1	25,353	53.56
	Indiana, Illinois & Iowa.....	1	17,574	37.14
	Wabash.....	1	4,391	9.28
32	Henry—2 roads.....	3	.....	46,696
	Chicago, Burlington & Quincy	2	34,845	74.62
	Chicago, Rock Island & Pacific.....	1	11,851	25.38
33	Washington—1 road	1	.....	35,000
	Illinois Central.....	1	35,000	100.00
34	Rock Island—1 road	1	.....	34,085
	Davenport, Rock Island & Northwestern.....	1	34,085	100.00
35	Knox—2 roads	3	.....	33,869
	Galesburg & Great Eastern.....	2	31,265	92.31
	Chicago, Burlington & Quincy	1	2,604	7.69
36	Gallatin—1 road	2	.....	31,819
	Louisville & Nashville	2	31,819	100.00
37	Will—1 road	1	.....	24,921
	Chicago & Alton	1	24,921	100.00
38	McDonough—1 road	1	.....	13,953
	Chicago, Burlington & Quincy	1	13,953	100.00
39	Stark—1 road.....	2	.....	13,640
	Chicago, Burlington & Quincy	2	13,640	100.00

Table 32—Concluded.

Number.	Counties and Railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
40	Hancock—1 road	1	.....	7,700
	Chicago, Burlington & Quincy	1	7,700	100.00
41	Jefferson—1 road	1	.....	1,000
	Southern Ry. Co	1	1,000	100 00
	Total tons handled by 34 railroads		30,082,301	.....
	Shipped by water.....			2,086
	LaSalle—Illinois and Michigan Canal.....		2,086	.....
	Total tons shipped—State.....		30,084,387	.....

This is the fourth year Sangamon county has been at the head of the list of counties supplying the largest tonnage of coal for shipment.

In 1899 Vermilion county was at the head of the list, shipping the largest tonnage of coal; this county has also, for the past five years, supplied the largest tonnage to any one railroad for shipment; this year it contributed to the Chicago & Eastern Illinois railroad 2,275,968 tons, being 87.27 per cent of the total output shipped from the mines of the county. Sangamon county is next with 1,695,154 tons to the Chicago & Alton railroad, and is closely followed by Williamson county, which gave 1,637,968 tons to the Illinois Central railroad for transportation.

A final showing of the enormous and notable operations of the 34 railroads in handling and transporting the coal product of the State, the tonnage of which is many hundreds of times greater than any other one product of Illinois, is shown in the following table:

TABLE 33—Illinois Coal Delivered to Illinois Railroads at the Mines for Shipment and for use on Locomotives—1903.

Number.	RAILROADS.	NUMBER OF—		TONS DELIVERED TO EACH RAILROAD FOR—		Total tons.
		Coun- ties.	Mines.	Ship- ment.	Loco- mo- tives.	
1	Illinois Central.....	20	91	7,390,485	373,550	7,764,035
2	Chicago & Eastern Illinois	2	26	3,222,817	10,000	3,232,817
3	Chicago & Alton.....	9	33	2,814,314	19,841	2,834,155
4	Wabash.....	10	28	2,203,658	93,256	2,296,914

Table 33—Concluded.

Number.	RAILROADS.	NUMBER OF—		TONS DELIVERED TO EACH RAILROAD FOR—		Total tons.
		Coun- ties.	Mines.	Ship- ment.	Loco- mo- tives.	
5	Chicago, Burlington & Quincy.....	15	37	1,978,627	30,297	2,008,924
6	Elgin, Joliet & Eastern.....	1	12	1,306,081	.....	1,306,081
7	Chicago & Northwestern.....	1	6	1,278,412	16,814	1,295,226
8	Chicago, Peoria & St. Louis.....	4	15	1,137,950	49,149	1,187,099
9	Baltimore & Ohio Southwestern.....	5	15	1,085,663	72,696	1,158,359
10	Louisville & Nashville.....	2	15	966,064	44,494	1,010,558
11	Chicago, Rock Island & Pacific.....	5	12	839,781	108,803	948,584
12	Cleveland, Cincinnati, Chicago & St. Louis...	8	20	838,623	73,176	911,799
13	Southern Railroad.....	3	13	807,277	16,799	824,076
14	St. Louis Troy & Eastern.....	1	3	803,080	1,200	804,280
15	Vandalia Line.....	2	6	535,728	22,822	558,550
16	Mobile & Ohio.....	4	9	495,368	77,018	572,386
17	Atchison, Topeka & Santa Fe.....	5	10	435,645	35,108	470,753
18	Indiana, Illinois & Iowa.....	4	6	284,436	.....	284,436
19	Iowa Central.....	2	6	278,062	2,945	281,007
20	Toledo, Peoria & Western.....	4	10	270,395	29,491	299,886
21	Peoria & Pekin Union.....	2	6	269,627	3,000	272,627
22	Pawnee.....	1	1	221,490	1,200	222,690
23	Toledo, St. Louis & Western.....	4	4	201,190	.....	201,190
24	Toluca, Marquette & Northern.....	1	1	80,930	1,350	82,280
25	St. Louis & Belleville Electric Railway Co....	1	2	67,239	.....	67,239
26	Lake Erie & Western.....	2	3	46,696	9,500	56,196
27	Illinois Southern.....	1	3	42,324	9,600	51,924
28	Alton Terminal.....	1	2	37,936	3,084	41,020
29	Wabash, Chester & Western.....	1	2	36,194	4,800	40,994
30	Davenport, Rock Island & Northwestern.....	1	1	34,085	.....	34,085
31	Galesburg & Great Eastern.....	1	2	31,265	920	32,185
32	Fulton County Narrow Gauge.....	1	3	19,384	1,560	20,944
33	Cincinnati, Hamilton & Dayton.....	1	2	16,310	3,266	19,576
34	Quincy, Carrollton & St. Louis.....	1	1	5,165	1,504	6,669
Total, 34 railroads.....		.....	.....	30,082,301	1,117,243	31,199,544
By Water. Illinois & Michigan Canal.....		1	1	2,086	.....	.....
Total, State.....		.....	.....	30,084,387	1,117,243	31,201,630

Here, in a concise form, is to be seen the list of railroads handling and transporting the one greatest tonnage product of Illinois. The Illinois Central railroad has handled 7,390,485 tons, or 25 per cent of this immense tonnage, which alone would require 6,158 trains, or 17 trains every day in the year, of 30 cars each, with each car carrying 40 tons of coal. The coal handled by these 34 railroads and delivered to their locomotives at the mines aggregates 31,199,544 tons.

DAYS OF ACTIVE OPERATION.

The following table gives the number of mines and men, and the days the collieries were in operation, by districts:

TABLE 34.—*Days of Active Operation, by Districts.*

DISTRICT.	MINES, MEN AND AVERAGE WORKING DAYS.								
	ALL MINES.			SHIPPING MINES.			LOCAL MINES.		
	Mines.	Men.	Days.	Mines.	Men.	Days.	Mines.	Men.	Days.
First.....	74	7,717	219.47	34	7,340	251.06	40	377	194.17
Second	181	6,860	173.98	25	6,072	243.24	156	788	160.66
Third	243	4,363	177.50	50	3,355	222.67	193	1,008	164.41
Fourth.....	87	6,771	203.35	45	6,319	210.00	42	452	194.30
Fifth.....	101	8,393	249.36	46	8,139	224.40	55	254	187.06
Sixth	113	8,354	216.76	83	8,179	224.69	30	175	194.90
Seventh.....	134	7,356	183.47	70	7,090	200.78	64	266	148.31
The State.....	933	49,814	192.10	353	46,494	221.82	580	3,320	170.72

The number of working days at all mines, and at the shipping and local mines, has increased considerable over last year. Observing the number of days the shipping mines were in operation, it is found there has been an increase of 11.62 working days over last year.

The following table gives the number of days of active operation of the shipping mines for a series of 11 years, by districts:

TABLE 35.—*Days of Active Operation of Shipping Mines for a Series of Eleven Years.*

YEAR.	FIRST.		SECOND.		THIRD.		FOURTH.		FIFTH.		SIXTH.		SEVENTH.		THE STATE.	
	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.
1893.....	38	220	26	228	80	215	56	251	101	233	....	.....	....	.....	301	229.6
1894.....	35	151.5	26	171	81	182.9	63	194.7	90	186.9	....	.....	....	.....	295	183.1
1895.....	26	159.4	28	176.1	66	173	64	185.5	94	192.6	....	.....	....	.....	278	182.2
1896.....	38	166	46	198	27	157	40	210	50	197	72	196	49	164	322	186
1897.....	35	166.9	46	183.2	19	158.6	36	207.7	60	202.1	73	194.8	51	165.5	310	185.5
1898.....	39	144.5	48	171.1	21	187.5	39	190	51	172.3	72	170.6	59	186.8	329	174.7
1899.....	37	208	45	211	23	185	37	221.6	50	201.6	72	201	57	206.6	321	205.7
1900.....	44	238	20	234	55	201	34	210	44	219	73	217	53	197	323	214
1901.....	39	235.5	26	202	53	188	33	185.7	46	207	77	223.6	57	182.4	331	204.4
1902.....	33	246.2	25	237.8	56	209	34	206.5	46	213.7	80	210.7	58	177.7	332	210.2
1903.....	34	251.06	25	243.24	50	222.67	45	210.00	46	224.40	83	224.69	70	200.78	353	221.82

The average working days these 353 mines were in operation during the year was 221.82. The highest average 251.06 days was reached in the first district, the lowest 200.78 days in the seventh.

AVERAGE VALUE OF COAL.

The following table gives the average value per ton of the different grades of coal, by districts:

TABLE 36—*Total Tons and Average Value of the Different Grades of Coal at the Shipping and Local Mines, by Districts—1903, 1902.*

DISTRICT.	ALL GRADES.		MINE RUN COAL.		LUMP COAL.	
	Total tons.	Average value per ton.	Total tons.	Average value per ton.	Total tons.	Average value per ton.
First	3,553,136	\$1.315	388,981	\$1.571	2,066,789	\$1.562
Second	2,991,168	1.371	211,812	1.380	2,071,640	1.573
Third	2,319,691	1.167	561,925	1.093	1,241,339	1.414
Fourth.....	4,573,052	1.044	2,952,037	0.974	1,088,180	1.304
Fifth.....	6,990,197	0.967	2,048,172	0.951	3,233,670	1.176
Sixth	7,656,451	0.849	2,241,257	0.879	3,861,289	1.01
Seventh	5,592,842	0.938	1,492,903	0.932	1,606,949	1.166
Shipping mines, 1903.....	33,676,537	\$1.032	9,897,087	\$0.982	15,169,856	\$1.275
Shipping mines, 1902.....	28,824,750	0.942	6,752,680	0.90	14,198,500	1.173
Local mines, 1903	1,278,863	\$1.521	476,011	\$1.405	704,653	\$1.713
Local mines, 1902	1,196,550	1.38	233,524	1.174	843,173	1.542

TABLE 36—*Total Tons and Average Value of the Different Grades of Coal at the Shipping and Local Mines, by Districts—1903, 1902—Concluded.*

DISTRICT.	EGG COAL.		NUT COAL		PEA COAL.		SLACK COAL.	
	Total tons.	Av. value per ton	Total tons.	Av. value per ton	Total tons.	Av. value per ton	Total tons.	Av. value per ton
First	165,979	\$1.596	122,269	\$1.317	718,530	\$0.535	90,588	\$0.253
Second	97,220	1.670	46,161	1.135	307,494	0.658	256,841	0.508
Third	43,051	1.400	123,250	0.863	247,490	0.526	102,636	0.408
Fourth.....	36,068	1.509	128,691	1.136	231,495	0.620	136,681	0.283
Fifth.....	106,752	1.107	239,918	0.944	979,788	0.530	382,897	0.362
Sixth.....	27,340	0.739	316,612	0.638	972,618	0.378	237,335	0.132
Seventh	515,968	1.124	765,592	0.973	1,020,971	0.603	190,459	0.273
Shipping mines, 1903.	992,378	\$1.269	1,741,393	\$0.946	4,478,386	\$0.527	1,397,437	\$0.307
Shipping mines, 1902.	677,079	1.022	1,562,659	0.764	4,542,777	0.471	1,091,055	0.228
Local mines, 1903	2,785	\$1.577	14,311	\$1.089	62,045	\$0.704	19,058	\$0.272
Local mines, 1902	3,906	1.478	23,797	1.10	61,455	0.576	30,695	0.322

This is the second year that a separation, of the selling value of the different grades of coal of shipping and local mines, has been made, in these reports. It will be seen that the average value per ton for all grades of coal at the shipping mines increased 9 cents over the value for last year; the value per ton for the different grades increased: for mine run coal 8 cents, lump 10 cents, egg 25 cents, nut 18 cents, pea 6 cents, and for slack 8 cents. At the local mines the value for all grades of coal, increased over last year 14 cents per ton, for mine run 23 cents, for lump 17 cents, egg 10 cents, and pea coal 13 cents; nut coal decreased 1 cent per ton and slack 5 cents.

The division of the different grades of coal produced at the mines is continued in this report. For every year up to 1900 the value per ton of lump coal at the mines was the only grade quoted in these reports, and was mainly the only grade quoted in the markets.

The table giving the tonnage and value per ton of lump coal for a series of 22 years follows:

TABLE 37—*Average Value of Lump Coal per Ton at the Mine for a Series of Twenty-two Years—1882-1903.*

Year.	Tons of lump coal produced.	Average value per ton.	Year.	Tons of lump coal produced.	Average value per ton.
1882.....	9,115,653	\$1.51	1893.....	16,112,899	\$1.025
1883.....	10,030,991	1.48	1894.....	13,865,284	1.009
1884.....	10,101,005	1.26	1895.....	14,045,962	0.932
1885.....	9,791,874	1.17	1896.....	13,990,924	0.899
1886.....	9,246,435	1.10	1897.....	14,672,241	0.852
1887.....	10,278,890	1.035	1898.....	14,208,795	0.918
1888.....	11,855,188	1.123	1899.....	16,008,109	0.9186
1889.....	11,597,963	1.078	1900.....	13,927,899	1.099
1890.....	12,638,364	1.019	1901.....	13,321,124	1.181
1891.....	12,900,224	1.008	1902.....	*14,198,500	1.173
1892.....	14,730,963	1.029	1903.....	*15,169,856	1.275

* Shipping mines.

This year 45 per cent of the output of shipping mines was returned as lump coal; this proportion of lump coal has only been exceeded, as produced by all mines, twice during the 22 years, namely, in 1893 and 1899. Referring to table 36 and the corresponding table for last year, the following percentages for shipping mines are derived:

YEAR.	PERCENTAGES OF—					
	Mine Run.	Lump.	Egg.	Nut.	Pea.	Slack.
1902.....	23.43	49.23	2.35	5.45	15.76	3.78
1903.....	29.39	45.05	2.95	5.17	13.29	4.15

MINE EMPLOYEES.

The following table gives the classification of those employed in and about the mines, by districts:

TABLE 38—*Classification of Employés in the Shipping Mines, by Districts, with the Employés in Local Mines.*

DISTRICT.	ALL EMPLOYEES.				Above ground.	Total.
	Miners.	Other employés.	Boys.	Total.		
First	5,486	1,129	179	6,794	546	7,340
Second	4,405	1,064	95	5,564	508	6,072
Third	2,356	565	91	3,012	343	3,355
Fourth.....	4,235	1,263	187	5,685	634	6,319
Fifth.....	5,561	1,524	250	7,335	804	8,139
Sixth	5,644	1,384	255	7,283	896	8,179
Seventh	4,605	1,386	177	6,168	922	7,090
The State.....	32,292	8,315	1,234	41,841	4,653	46,494
Local mines	2,612	208	42	2,862	458	3,320
Total.....	34,904	8,523	1,276	44,703	5,111	49,814

The shipping mines account for 93.33 per cent of the total number of employés, and 92.51 per cent of miners proper; 97.56 per cent of other employés and 96.71 per cent of the boys employed at the mines. The total number of employés at shipping mines has increased 3,687 or 8.61 per cent over last year.

The following table gives the total number of employés at all the mines of the State for a series of 21 years, by districts:

TABLE 39—*Employés in Coal Mines of the State for a Series of Twenty-one Years, by Districts.*

YEAR	DISTRICTS.							
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	The State.
1883	7,566	3,211	4,070	4,417	4,675	.....	.....	23,939
1884	8,013	3,616	5,018	4,781	4,147	.....	.....	25,575
1885	7,463	3,391	5,213	4,950	4,429	.....	.....	25,446
1886	7,613	3,599	4,870	5,197	4,567	.....	.....	25,846
1887	7,915	4,068	4,903	4,934	4,984	.....	.....	26,804
1888	8,623	4,914	5,250	5,086	5,537	.....	.....	29,410
1889	9,014	4,498	5,117	5,679	5,764	.....	.....	30,076
1890	8,258	4,099	5,171	5,685	5,361	.....	.....	24,574
1891	9,128	5,089	6,458	5,851	6,395	.....	.....	32,951
1892	9,572	4,865	6,453	6,542	6,200	.....	.....	33,632
1893	8,831	5,974	6,964	7,021	6,780	.....	.....	35,390
1894	10,280	6,713	7,112	7,760	6,621	.....	.....	38,477
1895	9,644	7,184	6,607	8,005	7,190	.....	.....	38,630
1896	9,380	7,103	2,134	4,467	5,758	4,374	3,816	37,032
1897	7,632	6,872	1,635	4,021	5,672	4,100	3,856	33,788
1898	7,377	6,799	1,800	4,030	6,093	4,662	4,265	35,026
1899	7,498	6,631	1,799	4,655	6,401	5,008	4,999	36,991
1900	7,722	5,693	3,864	5,545	5,983	5,885	4,692	39,384
1901	7,872	6,306	3,760	6,950	6,837	6,871	5,547	44,143
1902	8,035	6,583	4,268	5,679	7,564	7,929	5,947	46,005
1903	7,717	6,860	4,363	6,771	8,393	8,354	7,356	49,814

The first district shows a decrease of 318 in the number employed, all the other districts show an increase ranging from 277 in the second district to 1,409 in the seventh, making a net increase of 3,809 for the year over last year.

PRICES PAID FOR MINING.

The average prices paid for mining coal during the year, both for hand and machine mining, is set forth in the following table:

TABLE 40—*Average Prices Paid for Mining by Hand and with Machine at Shipping and Local Mines, by Districts—1903.*

DISTRICT.	MINING BY HAND.					MACHINE MINING.	
	Shipping Mines— Gross Weight.		Local Mines—Screened.			Gross Weight.	
	Tons.	Price per ton.	Tons.	Price per ton.	Tons paid for by the day.	Tons.	Price per ton.
First.....	3,553,136	\$0.737	183,185	\$0.671	112,330	.....	.....
Second	2,986,183	0.723	254,613	0.93	.....	*4,985	.....
Third	2,319,691	0.567	389,159	0.76	500	.....	.....
Fourth.....	4,459,632	0.529	192,232	0.61	‡7,000	†113,420	\$0.475
Fifth.....	4,512,793	0.508	67,584	0.775	¶1,268	2,489,258	0.435
Sixth	3,801,878	0.4944	78,380	0.607	.....	3,854,573	0.4337
Seventh	4,408,701	0.504	76,952	0.53	4,406	1,184,541	0.43
The State	26,042,014	0.57	1,241,105	\$0.734	25,504	7,646,777	\$0.4337

* Paid by the day.

† 75,918 tons paid by the day.

‡ Paid \$2.28 per day to April 1 and \$2.56 per day to June 30, 1903.

§ Paid \$2.50 per ton.

¶ Paid \$2.00 per ton.

In computing these averages the two agreements as to prices of mining between the miners and operators, covering the fiscal year of this report, were considered. That is, it was assumed that three parts of the tons of coal returned by the operators for the year, from July 1, 1902, to June 30, 1903, was mined under the contract price, going into effect April 1, 1902, and one part was mined under the agreed price taking effect April 1, 1903. This explanation will account for the rate of mining per ton found in table 40.

PAYMENT OF WAGES.

The time of the payment of wages to miners and other employés in and about the coal mines of the State is shown in the following table:

TABLE 41—*Frequency of the Payment of Wages at Shipping and Local Mines, by Districts—1903.*

DISTRICT.	PAYMENTS MADE.								
	WEEKLY.			SEMI-MONTHLY.			MONTHLY.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First.....				34	7,340	3,553,136			
Second.....	3	74	21,405	21	5,958	2,953,875	1	40	15,888
Third.....				50	3,355	2,319,691			
Fourth.....	5	35	10,625	40	6,284	4,562,427			
Fifth.....				46	8,139	6,990,197			
Sixth.....				83	8,179	7,656,451			
Seventh.....				70	7,090	5,592,842			
Shipping mines.	8	109	32,030	344	46,315	33,628,619	1	40	15,888
Local mines.....	251	1,203	352,622	325	2,045	898,932	4	72	27,309
The State.....	259	1,312	384,652	669	49,390	34,527,551	5	112	43,197

This table reveals that 97.45 per cent of the operators of shipping mines paid their employés semi-monthly; this embraces 93 per cent of all the employés at all the mines, and 96 per cent of the total tons of coal produced.

The following table shows the percentages of mines, men and tons of all the mines and time of the payment of wages for a series of 11 years:

TABLE 42—*Percentages of Mines, Men and Tons in Reference to Payment of Wages, for a Series of Eleven Years.*

YEAR.	WAGES PAID WEEKLY.			WAGES PAID SEMI-MONTHLY.			WAGES PAID MONTHLY.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1893	67	27.6	26.2	25	56	56.4	8	16.4	23.4
1894	43	11.7	9.7	46	66.6	67.2	11	21.7	23
1895	31	6.5	4.2	57	78.3	74.4	12	15.2	21.4
1896	49	7.8	5.3	37.5	74.6	12	12	17.6	21.2
1897	46.78	6.91	4.34	39.04	74.69	73.71	14.18	18.4	21.9
1898	32.23	5.36	4.99	62.32	90.25	89.78	5.45	4.38	5.23
1899	24.75	4.67	3.04	71.54	93.02	95.75	3.71	2.31	2.21
1900	33	4.12	2.57	64.8	95.04	96.48	2.2	.48	.59
1901	28.85	2.79	1.44	70.60	97.03	98.44	.55	.18	.12
1902	47	4.55	1.84	52.13	95.12	98.06	.87	.33	.1
1903	27.76	2.63	1.10	71.70	97.14	98.78	.54	.23	.12

EARNINGS OF MINERS.

Taking the returns of the operators of shipping mines, giving the number of miners employed, the number of days the mines were in operation, and the total tons produced, the following showing is made as the approximate accomplishments of the hand miners for the year:

TABLE 43—*Hand Mining, Earnings of Coal Miners, in Shipping Mines, for Year ended June 30, 1903—by Districts*

District.	Number of miners	Average days worked.	Total tons mined.	Average rate per ton.	Gross earnings.	Average tons per man per year.	Average earnings per man per year	Average tons per man per day.	Average earnings per man per day.
First	5,339	251.1	3,543,648	\$0.737	\$2,611,669	663.73	\$489 17	2.65	\$1 95
Second	4,405	243.2	2,986,183	0.7226	2,157,816	678.36	489 86	2.79	2 01
Third	2,296	222.7	2,307,691	0.5665	1,307,307	1,005.09	569 38	4.51	2 56
Fourth.....	4,039	217.7	4,365,714	0.5292	2,310,336	1,080.89	572 01	4.96	2 63
Fifth.....	3,939	223.1	4,487,666	0.6077	2,278,388	1,139.29	578 42	5.11	2 65
Sixth	2,628	214.3	3,159,364	0.4945	1,562,305	1,202.19	583 07	5.61	2 72
Seventh	3,232	256	3,604,962	0.5036	1,815,459	1,115.40	561 72	4.35	2 19
The State.....	25,878	224.1	24,455,228	\$0.5699	\$14,043,280	944.63	\$542 67	4.22	\$2 42
1902.....	24,229	209.85	20,616,165	\$0.5645	\$11,638,120	850.88	\$480 34	4.06	\$2 29
1901.....	22,206	203	18,227,130	0.569	10,372,670	821	467 11	4.04	2 30

In this table the figures for the years 1902 and 1901 are added for comparison.

MACHINE MINING.

The extent to which machine mining was carried on in the State for the year is set forth in the following table, by districts:

TABLE 44.—*Machine Mining—Mines, Men, Machines, Tons, by Districts—1903.*

DISTRICT.	MINES IN WHICH MACHINES ARE USED.									
	EXCLUSIVELY.				IN PART.			TOTAL.		
	Mines.	Men.	Machines.	Tons.	Mines.	Machines.	Tons.	Mines.	Machines.	Tons.
First										
Second					1	1	4,985	1	1	4,985
Third.....										
Fourth	1	98	2	75,918	2	6	37,502	3	8	113,420
Fifth	11	2,000	123	1,990,862	2	16	498,396	13	139	2,489,258
Sixth	20	2,274	166	2,325,872	18	132	1,528,701	38	298	3,854,573
Seventh.....	1	6	1	400	12	75	1,184,141	13	76	1,184,541
The State.....	33	4,378	292	4,393,052	35	230	3,253,725	68	522	7,646,777
1902.....	34	4,811	308	4,460,025	30	156	2,037,094	64	464	6,497,123
1901.....	29	3,499	280	3,761,270	34	184	2,015,369	63	464	5,776,639
1900.....	38	3,883	272	3,765,601	29	158	1,817,993	67	430	5,583,594
1899.....	39	.....	300	4,467,704	25	140	1,617,608	64	440	6,085,312

To this table for the year is added the same data for the four preceding years. The total tons mined by machines is the largest in five years, and exceeds that of last year by 1,149,654 tons, this excess being at mines where machines are used only in part for cutting coal.

The name and number of mining machines used during the year and the number in use for the previous four years, is presented in the following table:

TABLE 45.—*Name and Number of Mining Machines in Use, by Districts—1903.*

District.	Harrison.	Ingersoll-Sergeant.	Sullivan.	Morgan-Gardner.	Yock.	Jeffrey.	Herzler & Henninger.	Goodman.	Link Belt.	Butler.	Totals.
Second.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Fourth .....	.....	.....	.....	5	.....	.....	.....	1	.....	2	8
Fifth	81	18	.....	6	4	15	1	.....	14	.....	139
Sixth	68	67	68	1	27	24	32	4	7	.....	298
Seventh	29	10	14	3	.....	11	.....	9	.....	.....	76
The State.....	178	95	82	15	31	50	33	15	21	2	522
1902.....	160	133	36	22	28	32	20	29	3	2	465
1901.....	178	132	33	32	24	33	13	.....	19	.....	464
1900.....	197	119	40	19	5	30	*1	.....	19	.....	430
1899.....	180	130	35	15	12	39	*6	.....	23	.....	440

*Choteau.

There were no machines used in the First and Third districts during the year. The Choteau machine seems to have dropped out of use since 1900, when only one of this name was reported. Inadvertently the name of the Link-Belt machine was omitted from this table in the report of 1902.

The mines in which the coal is cut exclusively by machines is presented in the following table:

TABLE 46—*Mines in which Machines are Used Exclusively.*

COMPANY.	Location.	MACHINES.		Tons.
		No.	Name.	
Chicago, Wilmington & Ver. C. Co	Thayer.....	10	Jeffrey.....	403,758
Madison Coal Co.....	Divernon.....	9	{ 4 Link Belt..... } 5 Jeffrey.....	306,842
Staunton Coal Co. No. 1.....	Staunton.....	7	Jeffrey.....	301,643
Consolidated Coal Co. No. 6.....	Staunton.....	14	{ 4 Yock..... } 10 Harrison.....	256,406
Madison Coal Co. No. 2.....	Glen Carbon.....	14	Ingersoll-Sergeant.....	253,301
Madison Coal Co. No. 4.....	Glen Carbon.....	14	Ingersoll-Sergeant.....	252,479
Madison Coal Co. No. 5.....	Mt. Olive.....	17	Ingersoll-Sergeant.....	245,992
Consolidated Coal Co. No. 8.....	Mt. Olive.....	17	Harrison.....	229,654
Lumaghi Coal Co. No. 2.....	Collinsville.....	23	Sullivan.....	217,802
Consolidated Coal Co. No. 7.....	Staunton.....	15	Harrison.....	210,760
Consolidated Coal Co. No. 10.....	Mt. Olive.....	18	{ 17 Harrison..... } 1 Herzler-Henninger.....	195,875
Muren Coal & Ice Co.....	New Baden.....	16	Yock.....	194,276
Sorento Coal Co.....	Sorento.....	7	Ingersoll-Sergeant.....	176,000
Consolidated Coal Co. Abby No. 3.	Collinsville.....	10	Harrison.....	139,063
Consolidated Coal Co., Heinz Bluff	Collinsville.....	10	Harrison.....	129,670
Walnut Hill Coal Co.....	Belleville.....	8	{ 5 Sullivan..... } 3 Herzler-Henninger.....	121,243
Consolidated Coal Co.....	Trenton.....	10	Harrison.....	83,970
Consolidated Coal Co.....	Gillespie.....	10	Harrison.....	77,859
Consolidated Coal Co.....	Mission Field....	2	Butler.....	75,918
Lebanon Coal & Mining Ass'n.....	Lebanon.....	10	Yock.....	75,553
Valley Coal & Mining Co.....	East St. Louis...	6	Harrison.....	60,000
Oakland Coal Co.....	Belleville.....	5	{ 4 Ingersoll-Sergeant..... } 1 Herzler-Henninger.....	57,789
Consolidated Coal Co.....	Hornsby.....	11	Harrison.....	51,862
Consolidated Coal Co., Green Mt..	Belleville.....	3	Harrison.....	50,894
Consolidated C. Co., Gartside No. 4	Belleville.....	5	Harrison.....	49,324
Superior Coal & Mining Co.....	Belleville.....	6	Herzler & Henninger....	49,232
Consolidated Coal Co., Schureman	Belleville.....	4	{ 3 Harrison..... } 1 Ingersoll-Sergeant.....	47,335
Consolidated Coal Co., Richland...	Belleville.....	3	{ 2 Harrison..... } 1 Yock.....	30,255
Consolidated Coal Co., Rose Hill..	Belleville.....	3	Harrison.....	24,144
Consolidated Coal Co., Knecht....	Belleville.....	2	Harrison.....	8,900
Wm. Neil & Co.....	Bunker Hill.....	1	Harrison.....	6,926
Thomas Press Brick Co.....	Golden Eagle....	1	Ingersoll-Sergeant.....	4,928
Gas Blair Big Muddy Coal Co.....	Murphysboro....	1	Ingersoll-Sergeant.....	400
Total—33 Mines.....		292		4,393,052

The foregoing accounts for the performance of 292 machines in mines where coal is out entirely by this process. The achievement of these machines was at 33 mines, cutting 4,393,052 tons of coal. The most extensive work done by machines at any one mine during the year was at the Chicago, Wilmington and Vermillion company's mine at Thayer, Sangamon county, by ten Jeffrey machines, cutting 403,758 tons.

The foregoing is supplemented by the following table, giving a list of the mines where only a part of the coal is cut by machines:

TABLE 47--*Mines in which only Part of the Output is Cut by Machines.*

COMPANY.	LOCATION.	MACHINES.		Tons.
		No	Name.	
Chicago-Virden Coal Co.....	Virden.....	10	Link-Belt.....	358,493
Big Muddy Coal & Iron Co. No. 6.....	Murphysboro.	13	Harrison.....	246,269
Big Muddy Coal & Iron Co.(Harrison)	Murphysboro	14	Harrison.....	234,038
Odin Coal Co.....	Odin	7	{ 3 Jeffrey..... } 4 Link-Belt..... }	213,041
Southern Ill. C. M. & W. Co., No. 3....	Marion	5	Goodman.....	182,400
Donk Bros. Coal & Coke Co.....	Collinsville...	6	{ 4 Goodman..... } 2 Sullivan	169,400
Royal Coal Co.....	Belleville....	18	{ 15 Sullivan..... } 3 Ingersoll-Sergeant. }	168,100
Donk Bros. Coal & Coke Co.....	Collinsville...	22	Sullivan.....	167,352
Hillsboro Coal Co.....	Hillsboro.....	6	Morgan-Gardner.....	139,903
Chicago & Carterville Coal Co.....	Herrin	8	{ 3 Jeffrey..... } 3 Morgan-Gardner... } 2 Goodman	138,361
Trenton Coal Co.....	Trenton	14	Ingersoll-Sergeant.....	138,152
Kerns-Donewald Coal Co.....	Worden.....	5	Jeffrey.....	112,415
Madison Coal Co.....	Edwardsville.	10	Ingersoll-Sergeant.....	112,200
Southern Ill. C. M. & W. Co., No. 2....	Marion.....	4	Jeffrey.....	99,716
Glendale Coal Co., No. 1.....	Belleville....	5	Herzler-Henninger.....	69,900
Muren Coal & Ice Co.....	Belleville....	5	Jeffrey.....	67,831
Chicago & Big Muddy C. & C. Co.....	Marion.....	4	Jeffrey.....	66,113

Table 47—Concluded.

COMPANY.	LOCATION.	MACHINES.		Tons.
		No.	Name.	
Lenz Coal & Mining Co.....	Belleville.....	4	{ 2 Jeffrey..... 1 Morgan-Gardner... 1 Link-Belt	64,136
Gartside Coal Co., No. 4.....	Murphysboro.....	5	Ingersoll-Sergeant	60,300
Willis Coal & Mining Co., No. 1.....	Willisville.....	7	{ 5 Sullivan	52,200
			{ 2 Goodman	
Oak Hill Coal Co.....	Belleville.....	4	Harrison.....	38,945
Moweaqua Coal & Mining Co.....	Moweaqua.....	5	Morgan-Gardner	35,652
Hippard Coal Co., No. 2.....	Belleville.....	7	{ 5 Herzler-Henninger. 1 Harrison..... 1 Sullivan	35,385
Southern Ill. C. M. & W. Co., No. 4....	Marion.....	3	Sullivan	35,145
Kolb Coal Co.....	Mascoutah ...	4	{ 3 Herzler-Henninger. 1 Harrison.....	33,493
Johnson Coal Co.....	Marissa.....	2	Link-Belt.....	31,999
O'Fallon Coal & Mining Co.....	O'Fallon.....	8	Harrison.....	31,052
Skellet Coal Co.....	Belleville.....	2	Jeffreys	30,452
Carterville District Coal Co.....	Marion.....	6	Sullivan	27,750
Gartside Coal Co., No. 3.....	Murphysboro.....	4	Ingersoll-Sergeant	25,774
Eureka Coal Co.....	Marissa.....	5	Herzler-Henninger	25,743
Belleville & O'Fallon Coal Co.....	Belleville.....	4	Herzler-Henninger	19,105
Johnston City & Big Muddy C.&M. Co	Lake Creek...	2	Harrison.....	16,075
Devlin Coal Co.....	Toluca	1	Goodman	4,985
Penwell Coal Co.....	Pana.....	1	Goodman	1,850
Totals—35 mines.....	.....	230	.....	3,253,725

In the foregoing table is shown the work of 230 machines in 35 mines, cutting 3,253,725 tons of coal. The greatest number of tons cut by machines in this list was by 10 Link-Belt machines at the Chicago-Virden Coal company's mine at Virden, Macoupin county, cutting 358,493 tons.

POWDER USED.

The powder used in blasting coal is presented in the following table, by districts:

TABLE 48—*Distribution of Powder Used in All Mines, by Districts.*

DISTRICT.	POWDER USED IN BLASTING COAL.					
	Mines	Men.	Kegs.	Tons of Coal	Kegs per man.	Tons per keg.
First	38	5,194	46,952	2,654,936	9.04	56.55
Second	76	1,459	40,673	853,247	27.88	20.98
Third	150	3,784	122,562	2,624,320	32.4	21.41
Fourth	66	5,889	114,002	4,362,760	19.33	38.27
Fifth	70	8,308	191,348	7,056,225	23.03	36.88
Sixth	105	5,278	140,383	7,711,321	16.96	54.93
Seventh	134	7,355	150,391	5,674,600	20.45	37.73
The State	639	40,267	806,311	30,937,409	20.02	38.37
1902	657	36,559	637,448	25,566,523	17.4	40.01
1901	585	34,570	477,612	16,283,180	13.82	34.09
1900	621	29,677	490,713	19,979,219	16.5	40.71
1899	436	13,240	201,285	7,345,157	15.2	36.4

The quantity of powder used this year for blasting down coal was 806,311 kegs or 20,157,775 pounds, which equals 10,079 tons of this explosive. This immense quantity of powder consumed during the year is 168,863 kegs or 26.5 per cent more than reported as used last year. The results obtained from this seemingly prodigal use of powder varies but little from former years; for the State it was 38 tons per keg and 20 kegs per man. The best results derived in the thicker seams was in the sixth district, being 55 tons per keg and 17 kegs per man. The totals for four preceding years are given in the same table.

FATAL ACCIDENTS IN MINES.

This year the number of fatal accidents, occurring in and about the mines, is unprecedented in the history of coal mining in the

State. The following table, compiled from the reports of the several inspectors, gives the information in condensed form.

TABLE 49—*Fatal Casualties, by Districts—1903.*

DISTRICT.	Total number killed.	EMPLOYED.		NUMBER OF EMPLOYES.		Total number of tons of coal mined.	Number of employes to each death.	Rate per 1,000.	Number of tons of coal mined to each death.
		Under gr'und	Above gr'und	Under gr'und	Above gr'und				
First	24	24	.....	7,127	590	3,748,651	322	3.1	156,194
Second	11	10	*1	6,245	615	3,245,781	624	1.6	295,071
Third	9	9	.....	3,909	454	2,708,350	485	2.1	300,928
Fourth	30	28	†2	6,080	691	4,772,284	226	4.4	159,076
Fifth	26	26	.....	7,550	843	7,070,903	323	3.1	271,919
Sixth	32	32	.....	7,422	932	7,734,831	261	3.8	241,713
Seventh	24	23	‡1	6,370	986	5,674,600	307	3.3	236,442
The State	156	152	4	44,703	5,111	34,955,400	2,548	3.1	224,073

* Caught by cage.

† One falling smoke stack; one falling down shaft.

‡ Falling down shaft.

The total number killed during the year was 156. This is 57 or 57.58 per cent more than reported for last year, or the preceding year, the same number being reported for both years. The number killed this year is also larger than for any other year in the history of coal mining in this State.

For the year 1883 there were 134 persons reported killed; however, in that year two deplorable calamities occurred, one at Braidwood, where 69 men were drowned by the flooding of the Diamond mine; the other at Coulterville, where 10 men were killed by an explosion. With this single exception coal mining in the State for 20 years has been exempt from any calamity involving the death of so large a number of persons. This year, however, is to be recorded five unfortunate disasters in our coal mines, whereby 29 men were killed. Oct. 13, 1902, a blast explosion occurred in the mine of the Victor Coal company, Pawnee, Sangamon county, killing three men; Feb. 25, 1903, a blast explosion occurred in the mine of the Auburn and Alton Coal company at Auburn, Sangamon county, killing three men; March 13, 15 and 16, 1903, a gas explosion occurred in the mine of the Cardiff Coal company, Cardiff, Livingston county, killing nine men; March 23, 1903, a blast explosion occurred in the mine of the

Athens Coal company, Athens, Menard county, killing six men; March 31, 1903, a blast explosion occurred in the mine of the Sandoval Coal company, Sandoval, Marion county, killing eight men. Notwithstanding these ill-fated accidents, the number killed this year has increased largely over that of any previous year. The increase of fatal casualties in mines has been general in all parts of the State. In the First and Seventh districts the increase over last year was 60 per cent; in the Second, 57 per cent; in the Third, Fourth and Fifth, 53 per cent; in the Sixth, 68 per cent. In the reports of the several inspectors may be found a description of these casualties in detail.

The fatal accidents for 21 years are shown in the following table:

TABLE 50--*Fatal Accidents for 21 Years.*

Year.	Number killed.	Total number of employes.	Total tons of coal mined.	Number of employes to each life lost.	Rate per 1,000.	Number of tons of coal produced to each life lost.
1883.....	134	23,939	12,123,456	179.6	5.6	90,474
1884.....	46	25,575	12,208,075	566	1.8	265,393
1885.....	39	25,436	11,834,459	652.4	1.5	303,448
1886.....	52	25,846	11,175,241	497	2.0	214,909
1887.....	41	26,804	12,423,066	654	1.5	303,002
1888.....	55	29,410	14,328,181	534.7	1.9	260,512
1889.....	42	30,076	14,017,298	716.1	1.4	333,745
1890.....	53	28,574	15,274,727	539.1	1.9	286,316
1891.....	60	32,951	15,660,698	549	1.8	261,012
1892.....	57	33,632	17,062,276	580	1.7	313,372
1893.....	69	35,390	19,949,564	513	1.9	289,124
1894.....	72	32,635	17,113,576	453.3	2.2	237,688
1895.....	75	31,962	17,735,864	426.2	2.3	236,478
1896.....	77	33,054	19,786,626	429.2	2.3	256,969
1897.....	69	33,788	20,072,758	489.7	2.0	290,610
1898.....	75	35,026	18,599,299	467	2.1	247,991
1899.....	84	36,991	23,434,445	440	2.3	278,982
1900.....	94	39,384	25,153,929	419	2.4	267,696
1901.....	99	44,143	26,635,319	445.9	2.2	269,044
1902.....	99	46,005	30,021,300	464.7	2.2	303,245
1903.....	156	49,814	34,955,400	319.3	3.1	224,073
Averages for 21 years	73.7	33,354	18,550,741	452.5	2.2	251,657

The rate of killed per 1,000 employés, for this year, is 3.1. This is the highest rate since the year 1883. Omitting that year, the rate is 2.1 per 1,000 for the 21 years, or 2.2 per 1,000 for all the years.

The fatal casualties by causes and by districts, for this year, and for 14 years, is shown in the following table:

TABLE 51—*Fatal Accidents by Causes for 1903, with Totals and Averages for 14 Years.*

CAUSES.	Totals.	DISTRICTS.							Percentages.
		First.	Second	Third.	Fourth.	Fifth.	Sixth.	Seventh	
Blast explosions.....	25	.....	.....	6	.....	9	8	2	16.05
Cages.....	6	.....	2	.....	2	.....	1	1	3.85
Electrocuted.....	1	.....	.....	.....	.....	.....	1	.....	0.64
Falling smoke stack.....	1	.....	.....	.....	1	.....	.....	.....	0.64
Falling coal and rock.....	77	13	6	3	20	7	16	12	49.36
Falling down shaft.....	2	.....	.....	.....	1	.....	.....	1	1.28
Falling timber.....	2	1	.....	.....	.....	1	.....	.....	1.28
Flying coal.....	2	.....	1	.....	.....	.....	.....	1	1.28
Gas explosion.....	8	8	.....	.....	.....	.....	.....	.....	5.12
Pit cars.....	18	1	2	.....	4	3	4	4	11.53
Premature blast.....	11	1	.....	.....	.....	5	2	3	7.05
Powder explosion.....	3	.....	.....	.....	2	1	.....	.....	1.92
Totals, 1903.....	156	24	11	9	30	26	32	24	100.00
Totals, 1902.....	99	15	7	6	20	17	19	15	.....
Totals, 1901.....	99	11	9	4	21	17	22	15	.....
Totals, 1900.....	94	18	7	5	24	22	11	7	.....
Totals, 1899.....	84	7	12	4	11	14	22	14	.....
Totals, 1898.....	75	12	10	4	19	5	8	17	.....
Totals, 1897.....	69	11	9	4	10	19	11	5	.....
Totals, 1896.....	77	18	11	4	14	16	4	10	.....
Totals, 1895.....	75	16	12	16	15	16	.....	.....	.....
Totals, 1894.....	72	19	9	10	19	15	.....	.....	.....
Totals, 1893.....	69	17	5	12	10	25	.....	.....	.....
Totals, 1892.....	57	10	1	11	24	11	.....	.....	.....
Totals, 1891.....	60	15	4	9	12	20	.....	.....	.....
Totals, 1890.....	53	16	5	10	11	11	.....	.....	.....
Aggregates, 14 years.....	1,139	209	112	108	240	234	129	107	.....
Averages, 14 years.....	81.4	14.9	8.0	7.7	17.1	16.7	9.2	7.6	.....
Percentages, 8 years, 1896-1903.....	.....	15.42	10.09	5.31	19.78	18.05	17.13	14.21	100.00

The first, fourth, fifth and sixth districts account for over 70 per cent of the fatal casualties for the past eight years.

The fatal casualties by leading causes have been continued in these reports from year to year, and are presented in the following table for a series of 16 years:

TABLE 52—*Fatal Accidents for 16 Years, by Leading Causes.*

YEARS.	LEADING CAUSES.								Total.
	Blasts and explosions.	Cages.	Falling coal and rock.	Falling down shaft.	Fire, black and white damp.	Pit cars.	Railroad cars.	Other causes.	
1888.....	9	2	33	4	.....	6	1	.....	55
1889.....	3	4	26	2	.....	5	.....	2	42
1890.....	4	4	36	.....	5	3	1	.....	53
1891.....	11	4	33	1	4	2	2	3	60
1892.....	4	4	28	8	3	6	1	3	57
1893.....	6	4	48	3	2	2	1	3	69
1894.....	8	8	43	5	.....	6	2	.....	72
1895.....	12	4	38	4	5	5	1	6	75
1896.....	9	5	41	6	2	7	1	6	77
1897.....	11	.....	46	5	2	1	1	3	69
1898.....	11	2	43	4	7	2	1	5	75
1899.....	4	5	51	4	4	6	1	9	84
1900.....	17	4	51	1	1	11	2	7	94
1901.....	3	1	57	1	1	11	.....	25	99
1902.....	13	2	55	7	.....	15	2	5	99
1903.....	47	6	77	2	.....	18	.....	6	156
Totals	172	59	706	57	36	106	17	83	1,236
Percentages 16 years ..	13.91	4.77	57.12	4.61	2.91	8.53	1.38	6.72	100.00

Observing the line in the table giving the totals for this year, it will be seen that three of these causes, namely: blasts and explosions, falling coal and rock and pit cars, bear the greatest proportion, accounting for 91 per cent of all the fatal casualties for the year, while for the 16 years these same causes were liable for 80 per cent of the number killed.

The next presentation is a table showing the fatal and non-fatal casualties for the year, caused by explosions, falling coal, rock or slate, and from all other causes:

TABLE 53—*Fatal and Non-Fatal Accidents, Caused by Explosions, Falling Coal and Rock, and all Other Causes.*

CAUSE.	CASUALTIES.		PERCENTAGES.		Totals.	Percent-ages.
	Fatal.	Non-fatal.	Fatal.	Non-fatal.		
Blast explosions.....	28	20	17.95	4.88	48	8.48
Blasts, premature.....	11	3	7.05	.73	14	2.47
Blown out shots		12		2.93	12	2.12
Flying coal.....	2	12	1.28	2.93	14	2.47
Falling coal and rock or slate.....	77	164	49.36	40.00	241	42.58
All other causes	38	199	24.36	48.53	237	41.88
Total.....	156	410	100.00	109.00	566	100.00

The fatal and non-fatal casualties make a total of 566 for the year, 27.56 per cent were fatal and 72.44 per cent were non-fatal. The first four items in the table, the results of explosions, accounts for 26.28 per cent of the fatal casualties and 11.46 of the non-fatal, while falling coal and rock represents 49.36 per cent of the killed and 40 per cent of the injured.

A comparative table follows, showing the fatal casualties in mines by districts, with those of other causes, for a series of 21 years:

TABLE 54--*Fatal Accidents from Falls in Mines and from Other Causes, with Averages and Percentages for Twenty-one Years.*

YEAR.	DISTRICT.														Total from falls in mines.	Total from other causes.	Total deaths.
	First.		Second.		Third.		Fourth.		Fifth.		Sixth.		Seventh.				
	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.			
1883.....	7	72	1	....	13	5	11	5	8	12	....	....	....	....	40	94	134
1884.....	6	5	5	1	8	4	4	5	6	2	....	....	....	....	29	17	46
1885.....	6	4	....	3	2	4	9	4	3	4	....	....	....	....	20	19	39
1886.....	9	5	3	3	5	6	8	1	7	5	....	....	....	....	32	20	52
1887.....	10	4	3	2	3	2	2	1	10	4	....	....	....	....	25	13	41
1888.....	16	3	1	4	5	5	5	3	6	7	....	....	....	....	33	22	55
1889.....	8	6	1	2	3	3	6	2	8	3	....	....	....	....	26	16	42
1890.....	15	1	1	4	8	2	5	6	7	4	....	....	....	....	36	17	53
1891.....	10	5	2	2	4	5	6	6	11	9	....	....	....	....	33	27	60
1892.....	8	2	1	....	5	6	8	16	6	5	....	....	....	....	28	29	57
1893.....	15	2	3	2	8	4	6	4	16	9	....	....	....	....	48	21	69
1894.....	13	6	5	4	5	5	10	9	10	5	....	....	....	....	43	29	72
1895.....	8	8	7	5	7	9	7	8	9	7	....	....	....	....	38	37	75
1896.....	14	4	4	7	3	1	8	6	3	13	4	....	5	5	41	36	77
1897.....	8	3	4	5	3	1	10	....	11	8	8	3	2	3	46	23	69
1898.....	8	4	5	5	1	3	15	4	3	2	4	4	7	10	43	32	75
1899.....	6	1	4	8	2	2	9	2	7	7	14	8	9	5	51	33	84
1900.....	13	5	3	4	2	3	16	8	8	14	5	6	4	3	51	43	94
1901.....	9	2	4	5	1	3	14	7	5	12	14	8	10	5	57	42	99
1902.....	9	6	5	2	5	1	10	10	5	12	13	6	8	7	55	44	99
1903.....	14	10	6	5	3	6	22	8	7	19	15	17	12	12	79	77	156
Twenty-one years	212	158	68	73	96	80	191	115	156	163	77	52	57	50	857	691	1,548
Averages.....	10.1	7.5	3.2	3.5	4.6	3.8	9.1	5.5	7.4	7.8	3.7	2.5	2.7	2.4	40.8	32.9	73.7
Percentages.....	57.3	42.7	48.2	51.8	54.5	45.5	62.4	37.6	48.9	51.1	59.7	40.3	53.3	46.7	55.4	44.6	100.00

Referring to the line of totals, it will be seen there have been 1,548 killed during the 21 years, being an average of 73.7 for each year. Of this total number killed, 857, or 55.36 per cent was due to falls in the mines. Observing the districts, it will be seen that, with the exception of the second and fifth districts, all the others show over 50 per cent killed by falls in the mines.

The following table gives the percentages by years and by districts, and shows more fully the fatality from falls in mines:

TABLE 55—*Percentages of Fatal Accidents Caused by Falling Roof or Sides for Twenty-one Years, by Districts.*

YEAR.	DISTRICT.							THE STATE	
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Total deaths.	Per cent.
1883.....	8.9	100	82.4	62.5	40	.....	.....	134	30
1884.....	27.3	83.3	66.7	44.4	75	.....	.....	46	56.5
1885.....	60	.....	33.3	69.2	43	.....	.....	39	51.3
1886.....	64.3	50	45.5	89	58.3	.....	.....	52	61.5
1887.....	71.4	60	60	66	71.4	.....	.....	41	68.3
1888.....	84.2	20	50	62.5	46.2	.....	.....	55	60
1889.....	57.1	33.3	50	75	72.7	.....	.....	42	62
1890.....	93.8	20	80	45.5	63.6	.....	.....	53	67.9
1891.....	66.7	50	44.4	50	55	.....	.....	60	55
1892.....	80	100	45.5	33.3	54.5	.....	.....	57	49.1
1893.....	88.2	60	66.6	60	64	.....	.....	69	69.6
1894.....	68.4	44.4	50	52.6	68.6	.....	.....	72	58.3
1895.....	50	58.3	43.75	46.67	56.3	.....	.....	75	50.7
1896.....	77.8	36.4	75	57.1	18.8	100	50	77	53.3
1897.....	72.7	44.4	75	100	57.9	72.7	40	69	66.7
1898.....	66.7	50	25	79	60	50	41.2	75	58.1
1899.....	85.7	33.3	50	81.8	50	63.6	64.3	84	60.7
1900.....	72.2	42.9	40	66.7	36.4	45.5	57	94	54.3
1901.....	81.8	44.4	25	66.7	29.4	63.6	66.7	99	57.6
1902.....	60	71.43	83.33	50	29.41	68.42	53.33	99	55.55
1903.....	58.33	51.55	33.33	73.33	26.92	46.88	50	156	50.64
21 years.	57.3	48.2	54.5	62.4	48.9	59.7	53.3	1,548	55.4

In the final column of the table will be found the percentages each year for the 21 years. The highest per cent from falls was reached in 1893; the lowest is shown for 1883. The average is 55.4 per cent for each year covered by the table.

The following table gives the occupations and conjugal relations of the killed, by districts:

TABLE 56—*Occupation and Conjugal Relation of the Killed.*

OCCUPATION.	DISTRICTS AND NUMBER OF FATAL CASUALTIES IN EACH.							Total number of killed.	CONJUGAL RELATIONS.				
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.		Married.	Single.	Widows.	Children.	Dependents.
Carpenter.....	1							1	1		1	4	5
Cagers.....		1			1		2	4	2	2	2	7	9
Furnacemen.....		1						1	1		1		1
Drivers.....	2	1		4	4	2	3	16	6	10	6	7	13
Engineer.....				1				1	1		1	1	2
Examiner.....							1	1	1		1	2	3
Laborers—top.....		3		1	1			5	4	1	4	11	15
Loaders.....					2			2		2			
Machine runner.....							1	1	1		1	6	7
Machine helper.....						1		1		1			
Miners.....	21	5	8	22	14	27	16	113	73	40	69	222	260
Sinker.....							1	1		1			
Shooter.....					2	1		3	3		3	11	14
Trackman.....				2		1		3	2	1	2	4	6
Trapper.....					1			1		1			
Timberman.....			1		1			2	2		2	5	7
Totals.....	24	11	9	30	26	32	24	156	97	59	93	280	342

There are 16 occupations represented in this table of fatalities. One hundred and thirteen, or 72.44 per cent, of the killed were miners, and 16, or 10 per cent, were drivers. Of the total number, 97, or 62.18 per cent, were married, leaving 93 widows and 280 children. The total number left dependent to earn a livelihood for themselves is 342.

NON-FATAL ACCIDENTS.

The non-fatal accidents for the year are shown in the following table, by districts:

TABLE 57—*Non-Fatal Accidents, by Districts—1903.*

DISTRICT.	Number of men injured.	EMPLOYED.		NUMBER EMPLOYED.		Total number of employes.	Total tons of coal mined.	Number of employes to one man injured.	Rate per 1,000.	Number of tons of coal mined to one man injured.
		Under ground.	Above ground.	Under ground.	Above ground.					
First	73	73	.....	7,127	590	7,717	3,743,651	105	9.5	51,351
Second	62	60	2	6,245	615	6,860	3,245,781	111	9.0	52,351
Third	15	15	.....	3,909	454	4,363	2,708,350	291	3.4	190,556
Fourth	73	73	.....	6,080	691	6,771	4,772,284	93	10.7	65,373
Fifth	68	66	2	7,550	843	8,393	7,070,903	122	8.1	103,984
Sixth	63	63	.....	7,422	932	8,354	7,734,831	132	7.5	122,775
Seventh	56	53	3	6,370	986	7,356	5,674,600	131	7.6	101,332
The State	410	403	7	44,703	5,111	49,814	34,955,400	121	8.2	95,257

This table accounts for 410 men injured in and about the mines during the year, all of whom suffered a loss of 30 days or more of time, the ratio being 8.2 per 1,000 employed. The rate in the third district is less than half as shown for the fifth, sixth and seventh districts, and about one-third less than the first, second and fourth districts.

The record for non-fatal accidents for 21 years is shown in the following table:

TABLE 58—*Non-Fatal Accidents for 21 Years.*

Year.	Number of men injured.	Total number of employes.	Total number of tons of coal mined.	Number of employes to one man injured.	Rate per 1,000.	Number of tons coal produced to one man injured.
1883.....	231	23,939	12,123,456	104	9.6	62,482
1884.....	197	25,576	12,208,075	130	7.7	61,970
1885.....	176	25,446	11,834,459	145	6.9	67,241
1886.....	171	25,816	11,175,231	151	6.6	66,126
1887.....	180	26,804	12,423,066	149	6.7	69,017
1888.....	179	29,410	14,328,181	164	6.1	80,046
1889.....	201	30,076	14,017,298	150	6.7	69,738
1890.....	294	28,574	15,274,727	97	10.3	51,935
1891.....	367	32,951	15,660,698	90	11.1	42,672
1892.....	370	33,632	17,062,276	91	11.0	46,114
1893.....	403	35,390	19,949,564	88	11.4	49,503
1894.....	521	32,635	17,113,576	63	16.0	32,848
1895.....	605	31,962	17,735,864	53	18.9	29,315
1896.....	672	33,054	19,786,626	49	20.3	29,444
1897.....	518	33,788	20,072,758	65	15.3	38,751
1898.....	438	35,026	18,599,299	80	12.5	42,464
1899.....	597	36,991	23,434,445	62	16.1	39,254
1900.....	611	39,384	25,153,939	65	15.5	41,158
1901.....	422	44,143	26,635,319	104.6	9.56	63,117
1902.....	406	46,005	30,021,300	127	8.8	73,944
1903.....	410	49,814	34,955,400	121	8.2	85,257
Average, 21 years....	379	33,354	18,550,741	89	11.8	48,940

This is the third year that the non-fatal accidents have been recorded for those only who have lost 30 days or more of time on account of injuries received. Previous to the year 1901, the record was for all who lost one week or more of time from injuries.

The following table presents the non-fatal accidents, by occupations:

TABLE 59—*Non-Fatal Accidents by Occupation and Districts with Totals and Percentages.*

OCCUPATION.	DISTRICTS.							Totals.	Percent-ages.
	First.	Second	Third.	Fourth	Fifth.	Sixth.	Seventh.		
Blacksmiths				1				1	0.24
Carpenters					1			1	0.24
Cagers	2	2		1	4	2	2	13	3.17
Drivers	10	10	1	20	23	17	16	97	23.66
Engineers				1			1	2	0.49
Grippers			1	1				2	0.49
Laborers	1	5		2	3	2	6	19	4.64
Loaders							5	5	1.22
Machine runners					1	7	1	9	2.20
Machine helpers					1	2		3	.73
Miners	54	43	10	43	29	27	22	228	55.61
Mine examiners				1		1		2	0.49
Motorman						1		1	0.24
Oiler					1			1	0.24
Pumpman					1			1	0.24
Roadmen		1		1	1	1		4	0.98
Sinker							1	1	0.24
Spragger							1	1	0.24
Shot firers			2					2	0.49
Stable boss						1		1	0.24
Timbermen	2		1	1	1		1	6	1.47
Top men	2							2	0.49
Trappers	1			1	2			4	0.98
Trimmer		1						1	0.24
Trip riders	1					2		3	0.73
Totals	73	62	15	73	68	63	56	410	100.00

This table shows 25 distinct occupations in which the men were engaged who suffered from injuries. Two of the occupations, miners and drivers, account for 79.27 per cent of the whole number, leaving 20.73 per cent distributed amongst those in the 23 other occupations, which is less than one per cent to each.

The conjugal relationship of the injured is shown in the following table.

TABLE 60—*Conjugal Relations of the Injured in Non-Fatal Accidents, and Time Lost, by Districts.*

District.	Total.	Married	Single.	Children	Dependents.	Number recovered and losing time.	Total days lost.	Average days lost per man.
First.....	73	37	36	108	134	60	3,697	61.6
Second.....	62	33	29	103	136	50	3,086	61.7
Third.....	15	9	6	26	39	11	451	41.0
Fourth.....	73	35	38	31	66	73	6,270	85.9
Fifth.....	68	37	31	86	122	60	2,214	36.9
Sixth.....	63	34	29	73	106	61	2,972	48.7
Seventh.....	56	36	20	72	105	43	2,056	47.8
The State	410	221	189	499	708	358	20,746	58.0

This table reveals that of the 410 men injured, 221 were married, and 189 were single; that the married men had 708 dependents, being an average of over three persons to each family; these families had to be supported and cared for on an average of 58 days or nearly two months, with the additional expense attendant to sickness and suffering.

The following table gives the causes chargeable for these casualties:

TABLE 61—*Causes of Non-Fatal Accidents, by Districts.*

CAUSE.	DISTRICTS.							The State.	Per-cent-ages.
	First.	Second	Third.	Fourth	Fifth	Sixth.	Seventh.		
Blasts		1	1	2	7	2	.....	13	3.17
Blown out shots			4	.....	6	2	.....	12	2.93
Cage	2	3	.....	2	1	1	3	12	2.93
Chute					1	.....	.....	1	0.24
Chisel				1	.....	.....	.....	1	0.24
Explosion, gas	1	.....			2	2	.....	5	1.22
Explosion, powder			1	1	.....	2	3	7	1.71
Electricity					1	.....	.....	1	0.24
Falling coal and other things	4	16	4	3	2	2	3	34	8.30
Falling coal and rock....	48	22	3	35	13	24	19	164	40.00
Flying coal		2	1	3	2	2	2	12	2.93
Falling down shaft							1	1	0.24
Machines						2	2	4	0.98
Mule		1	.....	2	1	.....	1	5	1.22
Pit car	15	11	1	24	31	24	22	128	31.22
Premature blast		3	.....					3	0.73
Pick	1	.....			1	.....	.....	2	0.49
Plank		1	.....					1	0.24
Rails, loading		1	.....					1	0.24
Tipple		1	.....					1	0.24
Track	2	.....						2	0.49
Totals	73	62	15	73	69	63	56	410	100.00

The final column of the table reveals that falling coal and rock, in the mines, accounts for 40 per cent, and pit cars, in the mines, for 31 per cent of these accidents. With the exception of the third district, in which comparatively a small number of these accidents occurred, there is but a small variation in the numbers shown in the other districts; the first and fourth showing the largest number.

The record of these non-fatal accidents has been published from year to year, and are shown in the following table for 21 years:

TABLE 62—*Non-Fatal Accidents from Falling Roof and Sides, and Other Causes, with Percentages Caused by Falling Roof—21 Years.*

YEAR.	NON-FATAL ACCIDENTS.				YEAR.	NON-FATAL ACCIDENTS.			
	Total.	Falling roof and sides.	All other causes	Per cent caused by falling roof or sides.		Total.	Falling roof and sides.	All other causes	Per cent caused by falling roof or sides.
1883.....	231	130	101	56.28	1884.....	521	294	227	56.43
1884.....	197	135	62	68.53	1885.....	605	338	267	55.87
1885.....	176	118	58	67.00	1886.....	672	373	299	55.51
1886.....	171	109	62	63.74	1887.....	518	310	208	59.85
1887.....	180	124	56	68.88	1888.....	438	252	186	60.87
1888.....	179	112	67	62.58	1889.....	597	335	262	56.12
1889.....	201	129	72	64.17	1900.....	611	323	288	52.86
1890.....	294	196	98	66.66	1901.....	422	233	189	55.21
1891.....	367	227	140	61.85	1902.....	406	198	208	48.77
1892.....	370	234	136	63.25	1903.....	410	190	220	46.34
1893.....	403	254	149	63.03	Totals...	7,969	4,614	3,355	57.90

It will be noticed that the casualties from falling roof and sides in the mines is less than for any year since 1889, however, the number from this one cause shows an average of 58 per cent for the 21 years.

A further record has been published in these reports from year to year, showing the total number of fatal and non-fatal casualties, with

the percentages of each class of injuries, attributable to falling coal and sides in all the mines. The table follows:

TABLE 63—*Total Number Killed and Injured with Percentages of all Accidents Caused by Falling Roof or Sides for 21 Years—1883-1903.*

YEAR.	NUMBER.			PER CENT BY FALLING ROOF AND SIDES.		
	Killed.	Injured.	Total.	Killed.	Injured.	Total.
1883.....	134	231	365	30	56.28	47.7
1884.....	46	197	243	56.5	68.53	66.25
1885.....	39	176	215	51.3	67	64.18
1886.....	52	171	223	61.5	63.74	63.23
1887.....	41	180	221	68.3	68.88	68.77
1888.....	55	179	234	60	62.58	61.97
1889.....	42	201	243	61.9	64.17	63.78
1890.....	53	294	347	67.9	66.66	66.86
1891.....	60	367	427	55	61.85	60.88
1892.....	57	370	427	49.1	63.25	61.36
1893.....	69	403	472	69.6	63.03	63.98
1894.....	72	521	593	58.3	56.43	56.82
1895.....	75	605	680	50.7	55.87	55.59
1896.....	77	672	749	53.3	55.51	55.27
1897.....	69	518	587	66.7	59.85	60.65
1898.....	75	438	513	57.33	60.87	60.34
1899.....	84	597	681	60.71	56.12	56.68
1900.....	94	611	705	54.3	52.86	53.1
1901.....	99	422	523	56.43	55.21	55.45
1902.....	99	406	505	55.55	48.77	50.1
1903.....	156	410	566	50.64	46.34	47.53
21 years.....	1,548	7,969	9,517	55.4	57.90	57.48

This final table brings the matter of accidents in mines to a close in this report. The record here shown is both creditable and satisfactory, it also speaks well for the general management of the mines in this State. Observing the final column in this table, it will be seen that the per cent of the fatal and non-fatal accidents from falls in mines, is less this year than for any one of the 21 years of the published history of coal mining in the State.

The percentages of increase or decrease in men employed, tons produced, and the killed and injured, is presented in the following table:

TABLE 64—*Percentages of Increase and Decrease from year to year of Men Employed, Tons Produced, Men Killed and Men Injured for a Series of 21 Years.*

YEAR.	MEN EMPLOYED.		TONS PRODUCED.		KILLED.		INJURED.	
	Increase	De-crease.	Increase	De-crease.	Increase	De-crease.	Increase	De-crease.
1883 to 1884.....	6.83	.....	0.7	.....	.....	65.67	.....	14.72
1885		0.5	.....	3.06	.....	15.22	.....	10.66
1886	1.57	.....	.....	5.57	33.33	.....	.....	2.84
1887	3.71	.....	11.17	.....	.....	21.15	5.26	.....
1888	9.72	.....	15.34	.....	34.15	.....	.....	0.56
1889	2.26	.....	.....	2.17	.....	23.64	12.29	.....
1890		5.00	8.97	.....	26.2	.....	46.27	.....
1891	15.31	.....	2.53	.....	13.2	.....	24.83	.....
1892	2.07	.....	8.95	.....	.....	5.00	0.82	.....
1893	5.23	.....	16.92	.....	21.05	.....	8.92	.....
1894		7.78	.....	14.22	4.35	.....	29.28	.....
1895		2.06	3.64	.....	4.17	.....	16.12	.....
1896	3.42	.....	11.56	.....	2.67	.....	11.07	.....
1897	2.22	.....	1.45	.....	.....	10.4	.....	8.04
1898	3.66	.....	.....	7.34	8.7	.....	.....	15.44
1899	5.61	.....	26.00	.....	12.00	.....	36.3	.....
1900	6.47	.....	7.34	.....	1.19	.....	2.35	.....
1901	12.1	.....	5.88	.....	7.4	.....	.....	30.9
1902	4.21	.....	12.71	.....	7.4	.....	.....	3.8
1903	8.28	.....	16.44	.....	57.58	.....	0.99	.....

The final line gives the record for this year: the number of men employed has increased 8.28 per cent; the tons produced 16.44 per cent; the number killed 57.58 per cent, and the number injured only one per cent.

RECAPITULATIONS.

Six distinct recapitulation tables follow showing the general totals derived from all the mines in the State.

These totals are for the shipping and local mines and for both, by districts, and give a general view of the different features of the mining industry of the State for the year 1903.

TABLE 65--*The State--Recapitulation by Districts--Shipping and Local Mines, Counties and Production, 1903.*

DISTRICTS AND MINES.	Counties.	Num- ber of mines.	Total tons of coal produced.	GRADED PRODUCT--TONS OF--					
				Mine- run.	Lump.	Egg.	Nut.	Pea.	Slack or waste.
First	5	74	3,748,651	517,697	2,116,105	167,725	123,647	730,940	92,546
Shipping ...	5	34	3,553,136	388,981	2,066,789	165,979	122,269	718,530	90,588
Local	4	40	195,515	128,716	49,317	1,746	1,378	12,410	1,948
Second	8	181	3,245,781	211,812	2,302,632	97,220	46,161	331,115	256,841
Shipping ...	7	25	2,991,168	211,812	2,071,640	97,220	46,161	307,494	256,841
Local	8	156	254,613	.....	230,992	.....	.....	23,621	.....
Third	8	243	2,708,350	645,854	1,534,998	43,051	124,699	249,018	110,730
Shipping ...	6	50	2,319,691	561,925	1,241,339	43,051	123,250	247,490	102,636
Local	8	193	388,659	83,929	293,659	.....	1,449	1,528	8,094
Fourth	7	87	4,772,284	3,033,400	1,180,829	36,368	135,309	246,150	140,228
Shipping ...	7	45	4,573,052	2,952,037	1,088,180	36,068	128,591	231,495	136,681
Local	4	42	199,232	81,363	92,649	300	6,718	14,655	3,547
Fifth	9	101	7,070,903	2,102,570	3,251,427	106,752	239,755	985,488	384,911
Shipping ...	3	46	6,990,197	2,048,172	3,233,670	106,752	238,918	979,788	382,897
Local	8	55	80,706	54,398	17,757	.....	837	5,700	2,014
Sixth	5	113	7,734,831	2,306,492	3,867,289	27,340	318,695	976,660	238,335
Shipping ...	5	83	7,656,451	2,241,257	3,861,289	27,340	316,612	972,618	237,335
Local	2	30	78,380	65,235	6,000	.....	2,083	4,062	1,000
Seventh	11	134	5,674,600	1,555,273	1,621,228	516,707	767,438	1,021,040	192,914
Shipping ...	8	70	5,592,842	1,492,903	1,606,949	515,968	765,592	1,020,971	190,459
Local	11	64	81,758	62,370	14,279	739	1,846	69	2,455
The State	53	933	34,955,400	10,373,098	15,874,509	995,163	1,755,704	4,540,431	1,416,495
Shipping ...	41	353	33,676,537	9,897,087	15,169,856	992,378	1,741,393	4,478,356	1,397,437
Local	45	580	1,278,863	476,011	704,653	2,785	14,311	62,045	19,058

TABLE 66--*The State—Recapitulation by Districts—Value of Different Grades of Coal—Powder Used for Blasting Coal.*

DISTRICTS AND MINES.	Aggregate value of total product.	AGGREGATE VALUE OF THE DIFFERENT GRADES OF COAL AT THE MINES.						Keys of powder used for blast- ing coal.
		Mine-run.	Lump.	Egg.	Nut.	Pea or screen- ings.	Slack or waste.	
First.....	\$5,017,666	\$326,101	\$3,344,372	\$267,817	\$162,436	\$393,550	\$23,390	46,952
Shipping....	\$4,673,545	\$612,193	\$3,228,458	\$264,849	\$161,058	\$384,097	\$22,690	42,949
Local.....	344,121	213,508	115,914	2,968	1,378	9,453	500	4,003
Second.....	\$4,549,030	\$292,352	\$3,692,415	\$162,325	\$52,410	\$219,021	\$130,507	40,673
Shipping....	\$4,099,723	\$292,352	\$3,259,712	\$162,325	\$52,410	\$202,417	\$130,507	35,068
Local.....	449,307	.....	432,703	.....	.....	16,604	.....	5,605
Third.....	\$3,266,632	\$721,365	\$2,201,178	\$60,259	\$108,407	\$130,686	\$44,737	122,562
Shipping....	\$2,707,786	\$614,141	\$1,754,854	\$60,259	\$106,421	\$130,163	\$41,948	107,798
Local.....	558,846	107,224	446,324	.....	1,986	523	2,789	14,764
Fourth.....	\$5,052,715	\$2,980,657	\$1,671,991	\$54,739	\$153,283	\$152,635	\$39,410	114,002
Shipping....	\$4,776,287	\$2,878,044	\$1,515,815	\$54,439	\$146,223	\$143,134	\$38,632	110,234
Local.....	276,428	102,613	156,176	300	7,060	9,501	778	3,768
Fifth.....	\$6,868,170	\$2,026,308	\$3,832,859	\$117,126	\$226,613	\$525,798	\$139,466	191,348
Shipping....	\$6,747,405	\$1,945,292	\$3,801,777	\$117,126	\$225,567	\$519,184	\$138,459	188,844
Local.....	120,765	81,016	31,082	.....	1,046	6,614	1,007	2,504
Sixth.....	\$6,602,755	\$2,062,990	\$3,910,469	\$20,215	\$213,530	\$367,220	\$28,331	140,383
Shipping....	\$6,502,021	\$1,973,862	\$3,902,239	\$20,215	\$211,187	\$366,237	\$28,281	138,575
Local.....	100,734	89,128	8,230	.....	2,343	983	50	1,808
Seventh.....	\$5,339,004	\$1,474,176	\$1,891,130	\$581,735	\$747,442	\$616,049	\$28,472	150,391
Shipping....	\$5,244,643	\$1,399,393	\$1,874,539	\$580,612	\$745,685	\$616,008	\$28,406	147,591
Local.....	94,361	74,783	16,591	1,123	1,757	41	66	2,810
The State.....	\$36,695,972	\$10,383,949	\$20,544,414	\$1,264,216	\$1,664,121	\$2,404,959	\$434,313	806,311
Shipping....	\$34,751,410	\$9,715,277	\$19,337,394	\$1,259,825	\$1,648,551	\$2,361,240	\$429,123	771,049
Local.....	1,944,562	668,672	1,207,020	4,391	15,570	43,719	5,190	35,262

TABLE 67—*The State—Recapitulation by Districts, Disposition of the Output—1903.*

DISTRICTS AND MINES.	DISTRIBUTION OF THE OUTPUT—TONS.			
	Shipped from mines.	Supplied to locomotives at mines.	Sold to local trade.	Consumed and wasted at mines.
First	3,092,974	120,143	254,319	281,215
Shipping	3,092,974	119,268	180,215	160,679
Local		875	74,104	120,536
Second	2,766,006	49,661	314,051	116,063
Shipping	2,766,006	49,661	72,352	103,149
Local			241,699	12,914
Third	2,168,685	42,424	437,573	59,668
Shipping	2,168,685	42,424	49,214	59,368
Local			388,359	300
Fourth	3,960,498	192,159	469,576	150,051
Shipping	3,960,498	192,159	278,129	142,266
Local			191,447	7,785
Fifth	6,197,834	198,827	420,867	253,375
Shipping	6,197,834	183,149	361,409	247,805
Local		15,678	59,458	5,570
Sixth	6,800,290	308,984	265,172	360,385
Shipping	6,800,290	308,984	189,582	357,595
Local			75,590	2,790
Seventh	5,098,100	205,045	155,256	216,199
Shipping	5,098,100	205,045	75,129	214,568
Local			80,127	1,631
The State	30,084,387	1,117,243	2,316,814	1,436,956
Shipping	30,084,387	1,100,690	1,206,030	1,285,430
Local		16,553	1,110,784	151,526

TABLE 68—*The State—Recapitulation by Districts, Hand and Machine Mining, Prices Paid Machines—1903.*

DISTRICTS AND MINES.	TONS MINED BY—		AVERAGE PRICE PAID PER TON FOR—		MACHINES.	
	Hand.	Machine.	Hand mining.	Machine mining.	Number of mines using.	Number in use.
First	3,748,651	.....	\$0.734	.....	.....	.....
Shipping	3,553,136	.....	\$0.737	.....	.....	.....
Local	195,515	.....	0.671	.....	.....	.....
Second	3,240,796	4,985	\$0.755	*	1	1
Shipping	2,986,183	4,985	\$0.723	*	1	1
Local	254,613	.....	0.93	.....	.....	.....
Third	2,708,350	.....	\$0.595	.....	.....	.....
Shipping	2,319,691	.....	\$0.567	.....	.....	.....
Local	388,659	.....	0.76	.....	.....	.....
Fourth	4,658,864	113,420	\$0.53	\$0.475	3	8
Shipping	4,459,632	113,420	\$0.529	\$0.475	3	8
Local	199,232	.....	0.61	.....	.....	.....
Fifth	4,581,645	2,489,258	\$0.511	\$0.435	13	139
Shipping	4,512,793	2,477,404	\$0.508	\$0.435	11	137
Local	68,852	11,854	0.775	0.45	2	2
Sixth	3,880,258	3,854,573	\$0.4976	\$0.4346	38	298
Shipping	3,801,878	3,854,573	\$0.4945	\$0.4337	38	298
Local	78,380	.....	0.607	.....	.....	.....
Seventh	4,490,059	1,184,541	\$0.503	\$0.426	13	76
Shipping	4,408,701	1,184,141	\$0.504	\$0.43	12	75
Local	81,358	400	0.53	0.44	1	1
The State	27,308,623	7,646,777	\$0.564	\$0.434	67	519
Shipping	26,042,014	7,634,523	\$0.555	\$0.434	68	522
Local	1,266,609	12,254	0.725	0.45	.....	.....

* Day work.

TABLE 69—*The State—Recapitulation by Districts, Value of Coal per Ton, 1903.*

DISTRICTS AND MINES.	AVERAGE VALUE GRADED COAL AT THE MINES.						
	All grades.	Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.
First	\$1.339	\$1.596	\$1.580	\$1.60	\$1.314	\$0.538	\$0.253
Shipping	1.315	1.571	1.562	1.596	1.317	0.535	0.253
Local	1.760	1.662	2.350	1.70	1.00	0.762	0.257
Second	\$1.402	\$1.38	\$1.602	\$1.670	\$1.135	\$0.661	\$0.529
Shipping	1.371	1.38	1.573	1.670	1.135	0.658	0.529
Local	1.765	.....	1.869	.....	.....	0.702	.....
Third	\$1.206	\$1.117	\$1.434	\$1.40	\$0.869	\$0.525	\$0.404
Shipping	1.167	1.093	1.414	1.40	0.863	0.525	0.408
Local	1.44	1.266	1.516	.....	1.371	0.343	0.332
Fourth	\$1.059	\$0.983	\$1.416	\$1.505	\$1.133	\$0.620	\$0.281
Shipping	1.044	0.974	1.304	1.509	1.136	0.620	0.283
Local	1.39	1.257	1.681	1.00	0.909	0.647	0.23
Fifth	\$0.971	\$0.964	\$1.179	\$1.097	\$0.945	\$0.533	\$0.362
Shipping	0.967	.951	1.176	1.107	0.944	0.530	0.362
Local	1.49	1.489	1.75	.....	1.25	1.16	0.50
Sixth	\$0.854	\$0.894	\$1.011	\$0.739	\$0.67	\$0.376	\$0.132
Shipping	0.849	0.879	1.01	0.739	0.638	0.378	0.132
Local	1.28	1.366	1.372	.....	1.125	0.244	0.05
Seventh	\$0.941	\$0.948	\$1.166	\$1.126	\$0.97	\$0.603	\$0.273
Shipping	0.938	0.932	1.166	1.124	0.973	0.603	0.273
Local	1.15	1.167	1.142	1.50	0.944	0.60	0.25
The State	\$1.05	\$1.001	\$1.294	\$1.27	\$0.948	\$0.529	\$0.307
Shipping	1.032	0.982	1.275	1.269	0.946	0.527	0.307
Local	1.521	1.405	1.713	1.577	1.089	0.704	0.272

TABLE 70--*The State--Recapitulation by Districts, Employes, Days in Operation, 1903.*

DISTRICTS AND MINES.	EMPLOYES.					Average days of operation.
	Miners.	Others under ground.	Boys under ground.	All above ground.	Total.	
First	5,766	1,168	193	590	7,717	219
Shipping	5,486	1,129	179	546	7,340	251
Local	280	39	14	44	377	194
Second	5,068	1,082	95	615	6,860	174
Shipping	4,405	1,064	95	598	6,072	243
Local	663	18	.....	107	788	161
Third	3,198	607	104	454	4,363	177
Shipping	2,356	565	91	343	3,355	223
Local	842	42	13	111	1,008	164
Fourth	4,565	1,321	194	691	6,771	202
Shipping	4,235	1,263	187	634	6,319	210
Local	330	58	7	57	452	194
Fifth	5,755	1,540	255	843	8,393	209
Shipping	5,561	1,524	250	804	8,139	224
Local	194	16	5	39	254	187
Sixth	5,770	1,396	256	932	8,354	217
Shipping	5,644	1,394	255	896	8,179	225
Local	126	12	1	36	175	195
Seventh	4,782	1,409	179	986	7,356	183
Shipping	4,605	1,356	177	922	7,090	201
Local	177	23	2	64	266	148
The State	34,904	8,523	1,276	5,111	49,814	192
Shipping	32,292	8,315	1,234	4,653	46,494	222
Local	2,612	208	42	458	3,320	171

Table 71—Continued.

BUREAU COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	20 mines.....										1,778,302
1	Spring Valley Coal Co., 2..	Spring Valley	2	342	3.6	Sh.	St.	L. W.	M...	Hd...	333,832
2	Spring Valley Coal Co., 1..	do	2	345	3.6						327,146
3	Spring Valley Coal Co., 3..	do	2	481	3.6						272,637
4	Marquette Coal Co., 1.....	Marquette	2	302	3.6				E.....		270,472
5	Illinois 3d Vein Coal Co., B	Ladd	2	465	3.6				M.....		187,401
6	Spring Valley Coal Co., 5..	Spring Valley	2	412	3.6						185,998
7	Spring Valley Coal Co., 4..	Seatonville...	2	410	3.6						174,443
8	William Masters & Son....	Sheffield.....	6	50	4.6		Ho	P. R.	Hd...		3,905
9	Matthew Duncan	do	6	25	4.6						3,418
10	Ratcliff Bros	do	6	44	4.6		St..				3,150
11	Thomas Herrington.....	Princeton	6	145	4.6		Ho.				2,600
12	William Smith & Son.....	do	6	150	4.6						2,472
13	William Brandt.....	Mineral	6	37	4.6						2,444
14	George Heathcock	Princeton	6	200	4.6				M...		2,236
15	Edward Donahue.....	Sheffield.....	6	46	4.6				Hd...		1,770
16	Noah Hodgett	Mineral	6	50	4.6						1,400
17	John V. Duncan.....	Sheffield.....	6	25	4.6						1,100
18	A. W. Walton	Princeton	6	150	4.6						1,068
19	C. W. Riley	Sheffield.....	6	70	4.3						540
20	Tiskilwa Coal Co	Tiskilwa.....	7	55	3.0						240

CALHOUN COUNTY.

1	Thomas Press Brick Co ...	Golden Eagle.	1	90	2.4	Sl..	St..	P. R.	M...	M...	4,928
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CASS COUNTY.

	2 mines.....										2,807
1	Wm. Shore, Westwood.....	Chandlerville	2	40	3.0	Sh.	Ho	P. R.		H...	1,605
2	Charles Nelson.....	do	2	40	3.0						1,202

CHRISTIAN COUNTY.

	8 mines.....										926,563
1	Springfield Coal M. Co., 6..	Taylorville...	5	462	7.6	Sh.	St..	P. R.	E-M.	H...	233,068
2	Christian County C. Co., 1..	do	5	470					M...		216,815
3	Penwell Coal Co.....	Pana	5	723					E.....		141,766
4	Springside Coal Co	do	5	723					E.....		112,389
5	Pana Coal Co	do	5	720					C.....		107,404
6	Assumption C. & M. Co....	Assumption..	1	1008	3.0			L. W.	M...		85,468
7	Newbent Coal Co	Pana	6	720	7.6			P. R.			26,653
8	Edinburg Coal Co	Edinburg.....	5	365	7.0						3,000

Table 71—Continued

CLINTON COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Holting—Steam, horse or hand.	Long wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	6 mines.....										870,518
1	Breese Coal & Min. Co....	Breese.....	6	400	7.0	Sh.	St.	P. R.	M-E.	H...	231,001
2	Consolidated Coal Co.....	Collinsville...	6	400	7.0				M...		195,743
3	Muren Coal & Ice Co., 1....	New Baden....	6	324	8.0					M...	194,276
4	Trenton Coal Co.....	Trenton.....	7	335	5.6					H-M.	140,452
5	Consolidated Coal Co.....	do.....	7	333	5.6					M...	83,970
6	Germantown Coal Co.....	Germantown..	6	342	5.0					H....	25,076

FULTON COUNTY.

	63 mines.....										1,036,496
1	Whitebreast F. Co. of Ill., E	Dunfermline..	5	90	5.0	Sh.	St.	P. R.	M...	H...	195,355
2	Maplewood C. Co., Bl. H'k.	Farmington..	5	110	4.0						145,817
3	Monmouth Coal Co.....	Canton.....	5	150	4.0						137,209
4	Whitebreast F. Co. of Ill., C	Dunfermline..	5	90	5.0						101,647
5	Applegate & Lewis, W. Sh.	Cuba.....	5	80	4.6						70,643
6	Norris Coal Mining Co.....	Norris.....	5	185	4.4						63,377
7	E. Cuba Coal Co., East Sh.	Cuba.....	5	80	4.6						55,908
8	Scripps Coal Co.....	Astoria.....	5	67	6.0						47,762
9	Newsam Bros., Maplewood	Farmington..	5	110	4.0						36,462
10	Canton Union Coal Co.....	Canton.....	5	50	4.6						30,834
11	Farmington C. Co.....	Farmington..	5	145	4.0						30,383
12	Canton Coal Co.....	Canton.....	5	50	4.6						28,000
13	Monarch Coal Mining Co., 1	Farmington..	5	67	4.0	Sl.	Hd				18,198
14	Central Coal Mining Co.....	East Bryant..	5	50	5.0	Sh.	St.				12,000
15	Essex & Fritz, 1.....	Parrville....	5	70	4.6						8,684
16	Spoon River Coal Co.....	Ellisville....	1	35	4.2						7,535
17	Essex & Fritz, 2.....	Cuba.....	5	70	4.6						4,907
18	A. M. Everly.....	Canton.....	5	44	4.6		Hd				3,600
19	Wm. Roddis.....	Ipava.....	5	22	5.0	Sl.					3,441
20	W. E. Anderson.....	Canton.....	5	24	4.6	Dr.					3,200
21	Turner & Hubed.....	Lewistown..	2	100	2.6	Sh.	St.				3,100
22	Murphy Bro.....	Canton.....	5	60	4.6		Hd				2,610
23	Thomas Parcell.....	do.....	5	80	4.6						2,300
35	Product of 12 small mines.	do.....	5			Sl.					2,000
36	H. A. Rumbel, Eclipse.....	do.....	5	40	6.0	Sh.	Hd	P. R.	M...	H...	1,680
37	Thomas Baxter.....	St. David....	5	25	4.6						1,620
38	Isaac Bath.....	Lewistown..	2	75	2.5						1,620
39	A. J. Gunnnett.....	Fairview....	5	12	4.4	Dr.	Hd				1,520
40	Wersterfield & Co.....	Canton.....	5	80	4.6	Sl.	St.				1,440
41	Yocum & Son.....	Lewistown..	2	55	2.6	Sh.	Hd				1,372
42	Surprise Coal Co.....	Astoria.....	5	21	4.6	Sl.	St.				1,300
43	Joseph Wilson.....	do.....	2	40	2.6	Dr.	Hd				1,021
44	Temple Geiselman.....	do.....	5	20	5.2	Sl.					1,012
45	E. P. Moran.....	St. David....	5	60	4.6	Dr.					1,003
46	R. E. Gould & Co.....	Fairview....	5	50	4.6	Sl.					900
47	G. K. Barrere.....	Canton.....	5	60	4.6	Dr.					810
48	L. R. Snider.....	St. David....	5	24	4.6						800
49	Jacob Cleary.....	Fairview....	5	50	4.6						640
50	Joseph McLaughlin.....	Canton.....	5	80	4.6	Sh.					610
51	D. S. Mayall.....	Ipava.....	5	40	5.0	Sl.	St.				600
52	A. Anderson.....	Fairview....	5	50	4.6	Dr.	Hd				507

Table 71—Continued.

FULTON COUNTY—Concluded.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
53	Robert Roby.....	Cuba.....	5	50	4.6	Dr.	Hd	P.-R.	M...	Hd..	500
54	Martin & Son.....	Canton.....	5	80	4.6	"	"	"	"	"	480
55	Wm. Jordan.....	St. David.....	5	25	4.6	"	"	"	"	"	400
56	L. W. Davis.....	Fairview.....	5	50	4.6	"	"	"	"	"	400
57	Abraham Bath.....	St. David.....	5	55	4.6	"	"	"	"	"	360
58	T. H. Travers.....	Fairview.....	5	50	4.6	"	"	"	"	"	300
59	J. R. Riley, 2.....	Breeds.....	5	70	4.6	"	"	"	"	"	200
60	H. B. Doyle.....	Norris.....	6	60	5.6	"	"	"	"	"	120
61	John Wagner.....	Breeds.....	5	70	4.6	Sl.	"	"	"	"	110
62	George Prowl.....	Fairview.....	5	50	4.6	Dr.	"	"	"	"	100
63	W. H. Jones.....	.. do	6	50	4.6	"	"	"	"	"	32

GALLATIN COUNTY.

9 mines.....		.....	.....	.....	.....	.....	.....	.....	.....	45,400	
1	Gallatin Coal & Coke Co., 1	Equality.....	5	80	4.8	Sh.	St..	P.-R.	Rope	Hd..	35,487
2	John Anderson, 1.....	.. do	6	20	4.4	Sl.	M..	"	M...	"	2,000
3	Ratley & Co., 1.....	.. do	6	50	4.6	"	"	"	"	"	2,000
4	Wm. H. McLain, 1.....	.. do	6	31	4.0	"	"	"	"	"	1,950
5	East Side Coal Co., 1.....	.. do	5	30	4.6	Sh.	St..	"	"	"	1,063
6	Leon Vogt, 1.....	Shawneetown	6	30	4.6	Sl.	M..	"	"	"	850
7	Strong & Co., 1.....	Saline Mines.	6	30	4.6	"	"	"	"	"	800
8	R. J. Mitchell.....	.. do	6	35	4.6	"	"	"	"	"	750
9	A. G. Smith.....	.. do	6	20	4.6	"	"	"	"	"	500

GREENE COUNTY.

7 mines.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,492
1 Dill Coal Co.....	Roodhouse.....	P't.	60	...	Sh.	H..	P.-R.	.....	Hd..	1,920
2 Ed. Griffith.....	.. do	1	60	...	"	"	"	.....	"	1,080
3 Ed. Axley.....	.. do	1	50	...	"	"	"	.....	"	960
4 Solomon & Sturman.....	Greenfield.....	P't.	60	...	"	"	"	.....	"	200
5 Geo. Parks.....	.. do	"	30	...	Sl.	"	"	.....	"	192
6 Col. Cummings.....	Roodhouse.....	1	...	...	Dr.	Hd	"	.....	"	80
7 Fred Strang.....	.. do	1	...	...	"	"	"	.....	"	65

Table 71—Continued.

GRUNDY COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
22 mines.....			---	---	---	---	---	---	---	1,457,935	
1	C., W. & V. Coal Co., 1.....	S. Wilm'gton.	2	195 3.5	Sh.	St.	L. W.	M.	Hd.	298,007	
2	Braceville Coal Co., 5.....	Braceville	2	103 3.2						163,285	
3	C., W. & V. Coal Co., 2.....	S. Wilm'gton.	2	200						149,902	
4	Big Four Wilm. Coal Co., 3.....	Coal City	2	85 3.0	Sl.					145,013	
5	Wilm'gton C.M. & Mfg. Co., 4.....	Diamond	2	105 3.0	Sh.					118,662	
6	Taylor & Cavanaugh, 5.....	Carbon Hill	2	99 3.0						114,960	
7	Big Four Wilm. Coal Co., 2.....	Coal City	2	90 3.0						106,683	
8	Wilmington Star M. Co., 6.....	do	2	90 1.0						105,856	
9	Wilm'gton C.M. & Mfg. Co., 5.....	Diamond	2	110 3.0						80,094	
10	Wilmington Star M. Co., 5.....	Coal City	2	101 3.0						79,818	
11	Taylor & Cavanaugh, 4.....	Carbon Hill	2	75 3.0	Sh.					61,459	
12	Star Coal Co., 1.....	do	2	113 3.0	Sh.					8,783	
13	Espley & Handwork.....	Morris	2	50 2.4	Sl.	St.	P.-R.	Hd.	Hd.	4,079	
14	Morris-Carbon Coal Co.....	do	2	51 3.0						3,529	
15	William Wood.....	do	2	61 2.9		Hd				3,320	
16	Mitchell & Bros.....	do	2	40 2.8						2,280	
17	Frank Gilbride.....	do	2	80 3.2						2,150	
18	John Cryer, Jr.....	do	2	75 2.8						1,995	
19	James Bell.....	do	2	41 2.6						1,953	
20	Fleming & Byrns.....	do	2	50 2.10						1,450	
21	R. Blair.....	do	2	40 3.0						1,000	
22	Henry Tesdale.....	do	2	97 2.9						652	

HAMILTON COUNTY.

2 mines.....											700
1	J. R. Yates.....	Dalgren	P't.	8 2.0	St.		St.				600
2	J. C. Harper.....	Flint		8 2.0							100

HANCOCK COUNTY

6 mines.....											11,340
1	Meredith Bros.....	Augusta	2		Sh.	Ho.	P.-R.	Hd.	Hd.		7,700
2	C. H. Ellis.....	do	2		Sl.						1,220
3	Geo. Worley.....	do	2		Sh.						860
4	L. Bennett.....	do	2								810
5	G. Jones.....	do	2								410
6	Geo. Willey.....	do	2								340

Table 71—Continued.

HENRY COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	31 mines.....										130,663
1	Kewanee Coal Mining Co., 1	Kewanee.....	6	104	4.0	Sh.	St..	P.-R.	M...	Hd..	39,450
2	Atlas Coal Co., 1.....	Galva.....	6	64	4.0	"	"	"	Hd..	"	15,888
3	Kewanee Mining & Mfg. Co	Kewanee.....	6	70	4.0	"	"	"	M...	"	15,000
4	Kewanee Coop. Coal Co....	do.....	6	60	4.0	"	"	"	Hd..	"	11,808
5	Herdien Coal Co., 15.....	Galva.....	6	60	4.0	"	"	"	"	"	11,300
6	Fred Kenady.....	Cambridge...	3	130	2.8	"	"	"	M...	"	4,174
7	Bates Bros.....	Kewanee.....	6	68	4.0	"	Ho.	"	Hd..	"	3,400
8	Briar Bluff Coal Co.....	Briar Bluff...	1	25	3.0	Sl..	Ho.	"	"	"	3,395
9	Wm. G. Kay.....	Atkinson.....	3	35	2.8	Sh.	St..	"	"	"	2,860
10	Ben Price.....	Kewanee.....	6	65	4.0	"	Ho.	"	"	"	2,544
11	Mat Atkinson.....	do.....	6	15	4.0	Sl..	"	"	"	"	2,450
12	Ab. Hodgett.....	do.....	6	35	4.0	Sh.	"	"	"	"	2,400
13	Dixon & Martin.....	do.....	6	66	4.0	"	"	"	"	"	2,020
14	Henry Rumla.....	Atkinson.....	3	20	2.8	"	St..	"	"	"	1,800
15	Ralph Todd & Son.....	Kewanee.....	6	20	4.0	Sl..	Ho.	"	"	"	1,806
16	Emil Ahlgren.....	do.....	6	25	4.0	"	"	"	"	"	1,680
17	Robert Kay.....	Briar Bluff...	1	...	3.6	Dr.	Hd	"	"	"	1,600
18	Charles Stiner.....	Atkinson.....	3	35	2.8	Sh.	St..	"	"	"	1,400
19	John Mowbray.....	do.....	3	...	2.8	Dr.	Ho.	"	"	"	784
20	Max Groy.....	Kewanee.....	6	30	4.0	Sh.	"	"	"	"	720
21	North Main Coal Co.....	do.....	6	58	4.4	"	St..	"	"	"	600
22	J. W. Kershaw.....	Briar Bluff...	1	12	3.6	Sl..	Ho.	"	"	"	600
23	P. Maloen & Son.....	Kewanee.....	6	15	4.0	"	"	"	"	"	600
24	Ped Carter.....	do.....	6	16	4.0	"	"	"	"	"	450
25	Thomas Carter & Son.....	do.....	6	16	4.0	"	"	"	"	"	350
26	R. E. Maloen.....	do.....	6	...	4.0	Dr.	Hd	"	"	"	360
27	Joseph Stanley.....	do.....	6	...	4.0	"	"	"	"	"	360
28	John McCaffrey.....	do.....	1	40	4.6	Sl..	*	"	"	"	320
29	Richard Golden.....	do.....	6	...	4.0	Dr.	Hd	"	"	"	150
30	Lamb & Tharp.....	do.....	6	18	4.0	Sl..	Ho.	"	"	"	160
31	John Woodbury.....	Green River..	1	...	2.6	Dr.	Hd	"	"	"	120

* Gas engine.

Table 71—Continued.

JACKSON COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Holisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	23 mines										972,284
1	Big M. C. & I. Co., 6.....	Murphysboro.	2	150	6.3	Sh.	St..	P.-R	M...	H.-M	264,073
2	B. M. C. & I. Co., Harrison..	do	2	150	6.6	..	..	..	..	..	239,253
3	M. V. Mining & Mfg. Co. 1.	Halldayboro..	7	165	8.0	..	..	..	..	Hd..	228,885
4	Gartside Coal Co., 4.....	Murphysboro.	2	148	6.6	..	..	..	..	..	78,738
5	Willis Coal & Mining Co., 2.	Bryden	1	48	6.0	Sl..	..	..	..	Hd..	64,458
6	Gartside Coal Co., 3.....	Murphysboro.	2	146	6.6	Sh.	..	..	..	H.-M	39,057
7	Desoto Coal & Wash. Co., 1.	DeSoto.....	7	60	9.0	..	..	..	..	Hd..	32,800
8	Chicago & C. Coal Co., 1....	Carbonale....	7	90	9.0	..	..	..	..	..	12,000
9	J. C. Presson, 1.....	do	7	22	7.0	..	..	..	Hd..	..	1,900
10	E. Sponsler, 1.....	do	7	26	7.0	Sl..	..	..	..	..	1,800
11	Sebert Phillips, 1.....	do	7	24	7.0	..	..	..	..	..	1,400
12	Robert Poole, 1.....	Murphysboro.	1	60	2.8	Sh.	..	..	..	..	1,340
13	W. H. Meyers, 1.....	Carbondale....	7	22	7.0	Sl..	..	..	..	..	1,150
14	Schmidgall Coal Co., 1.....	Murphysboro.	1	120	3.4	Sh.	..	..	..	..	1,024
15	M. M. Thompson Coal Co., 1	Carbondale....	7	28	7.0	Sl..	..	..	..	..	1,000
16	D. Dawson.....	Campbell Hill	5	20	3.0	..	..	..	..	..	811
17	O. R. Moss.....	Vergennes....	2	24	3.6	..	..	..	..	..	691
18	John Herman.....	Oraville.....	2	30	3.6	..	..	..	..	..	500
19	Gus Blair B. M. Coal Co....	Murphysboro.	3	125	6.6	Sh.	..	..	..	..	400
20	W. R. Campbell.....	Campbell Hill	5	20	3.0	Sl..	..	..	..	..	400
21	F. Williams.....	Vergennes....	2	26	3.6	..	..	..	..	..	250
22	John Campbell.....	do	2	26	3.6	..	..	..	..	..	200
23	H. R. King.....	Campbell Hill	5	20	3.0	..	..	..	..	..	154

JEFFERSON COUNTY.

	2 mines										15,100
1	Jefferson Co. Coal Co., 1....	Mt. Vernon...	7	25	4.10	Sh	St.	P.-R	M...	Hd..	15,000
2	Sophia A. Shelton, 1.....	Opdyke.....	2	12	1.6	St..	St..	St..	.....	.....	100

Table 71—Continued.

JERSEY COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Holisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule cable or electric.	Hand or machine mine.	
	6 mines.....										2,790
1	L. A. Miller.....	Brighton.....	5	60	3.6	Sh.	Ho.	P.-R.		Hd.	922
2	Cairns & Budd.....	.. do	5	90	3.6						720
3	L. Wenglass.....	.. do	5		3.6	Dr.	Hd.				392
4	E. Springman.....	.. do	5		3.6						336
5	E. Harnish.....	.. do	5	40	3.6	Sh.	Ho.				252
6	M. Burns.....	.. do	5		3.6	Dr.	Hd.				168

JOHNSON COUNTY.

	5 mines.....										2,545
1	Dill & Wallace, 1.....	New Burnside	2	30	3.4	Sl.	Ho.	P.-R	M...	Hd.	1,200
2	McMichael & King, 1.....	.. do	2	20	3.4						545
3	A. J. Edwards & Co., 1.....	.. do	2	20	3.4						400
4	Wm. T. Kilgore, 1.....	.. do	2	30	3.4						200
5	T. Draton & Co., 1.....	.. do	2	20	3.4						200

KANKAKEE COUNTY.

1	Gardner-Wilm. Coal Co., B.	Clark City....	2	130	3.0	Sh.	St.	L.W.	M&C	Hd.	58,195
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Table 71—Continued.

KNOX COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.									Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.		
41 mines.....											84,575	
1	Etherly Coal Co., 2.....	Etherly.....	6	35 4	Sl.	Ho.	P-R.	Mule	Hd...		30,350	
2	Yates City Coal Co., 1.....	Yates City.....	5	94 2.3	Sh.	St.					4,576	
3	Rodell & Mitchell.....	Wataga.....	6	54 4		Ho.			Hd..		4,447	
4	Reed & Pendergast.....	Superville.....	1	100 4.6		St.					3,640	
5	G. W. Essex.....	do.....	1	106 4							3,500	
6	Galva Coal Co., 1.....	Wataga.....	6	68 4							3,050	
7	George Clifford.....	Onelda.....	6	30 4	Sl.	Ho.					2,908	
8	Steve McGovern.....	do.....	6	47 4.4	Sh.						2,536	
9	Chas. Simpson.....	Wataga.....	6	30 4	Dr.	Hd					2,132	
10	John Walsh.....	Truro.....	6	30 4	Sl.	Ho.					2,120	
11	Jacob Crutz.....	Yates City.....	6	38 4.6	Sh.	St.					2,040	
12	N. C. Anderson.....	Knoxville.....	3	2.8	Dr.	Hd					1,946	
13	Martin Isaacson.....	Wataga.....	6	47 4	Sh.	Ho.					1,904	
14	Gus Dalton.....	Yates City.....	6	30 4.6		St.					1,800	
15	Bowman Bros.....	do.....	6	37 4.6							1,640	
16	Hamilton Taylor.....	Wataga.....	6	50 4		Ho					1,500	
17	W. F. Moore.....	Victoria.....	6	20 4							1,200	
18	T. B. McGovern.....	Onelda.....	6	50 4.4							1,200	
19	Lundeen & Nelson.....	Knoxville.....	3	2.8	Dr.	Hd					1,200	
20	Edward Rusted.....	Victoria.....	6	24 4	Sh.	Ho.					1,112	
21	August Peterson.....	Superville.....	1	16 3.8	Sl.	St.					1,010	
22	Nodine & Son.....	Wataga.....	6	20 4		Ho.					800	
23	John Todd.....	Victoria.....	6	20 4	Dr.	Hd					600	
24	George Lane.....	Knoxville.....	3	2.8							480	
25	Ambrose King.....	Victoria.....	6	4							480	
26	William Woodward.....	Galesburg.....	1	20 4	Sh.	Ho.					450	
27	James Nelson.....	Knoxville.....	3	40 2.8							440	
28	Wm. H. Welker.....	Farmington.....	6	4	Dr.	Hd					426	
29	Cook & Dymoniles.....	Etherly.....	6	4		Ho					400	
30	N. A. Anderson.....	Wataga.....	6	30 4	Sl.						400	
31	Chas. Morgan.....	Onelda.....	6	16 4							300	
32	Claus Bengston.....	Wataga.....	6	40 4	Sh.						208	
33	William Nelson.....	Victoria.....	6	4	Dr.	Hd					200	
34	Product of four mines in Cedar T. P.....	Abingdon.....	2	1.8							2,800	
35	Product of four mines in Copley T. P.....	Victoria.....	6	4							780	

Table 71—Continued.

LASALLE COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	35 mines										1,877,555
1	C., W. & V. Coal Co., 2....	Streator	7	116 6.0		Sh.	St.	P.-R.	M & E	Hd..	206,749
2	C., W. & V. Coal Co., 1....	.. do	7	96 8.0					M		199,519
3	LaSalle Co. Coal Co., Union	LaSalle	2	375 3.6				L.W.			182,107
4	LaSalle Co. Coal Co., 1....	.. do	2	440 3.6							178,935
5	LaSalle Co. C'l Co., LaSalle	.. do	2	392 3.6							166,771
6	LaSalle Co. C. Co., Rockwell	.. do	2	390 3.6							162,963
7	Acme Coal Co., 1.....	Streator	7	110 6.6				P.-R.			158,326
8	Star Coal Co., 2.....	.. do	7	86 5.0					M & C		129,168
9	Oglesby Coal Co., 1	Oglesby	2	464 3.6				L.W.	M		118,761
10	Mrs. E. Hakes, 2.....	Rutland	2	500 2.9							111,680
11	M. & H. Zinc Co	LaSalle	5	310 4.6			St.	P.-R.	M	Hd..	96,891
12	Estate Jas. Cahill, Cahill...	Peru	3	350 3.0				L.W.			72,000
13	Illinois Zinc Co	Deer Park	2	130 3.0		Dr.	Ho.				44,979
14	Marseills Coal Mining Co.,	Mars-illes	2	120 2.10		Sh.	St.				15,656
15	Monts Bros	Streator	7	35 5.0			Hd	P.-R.	Hd..	Hd..	9,539
16	Wm. G. Francis	.. do	7	40 5.0		S	St.		M		5,400
17	N. Wilmington Coal Co., 1.	Seneca	2	112 3.0		Sh.		L.W.			5,241
18	T. B. Smith & Son	Streator	7	51 5.0			Ho.	P.-R.	Hd..		2,080
19	Lewis Evans	Kangley	7	30 4.8		Sl.					2,000
20	Oscar Kines	Streator	7	40 4.0		Sh.					1,480
21	Hoar Bros	.. do	7	35 4.0							1,100
22	James McCullough	Ottawa	2	60 2.4		Dr.	Hd				500
23	J. C. Dawson	Deer Park	7	125 4.0			St.		C		700
24	Meyer & Hendee	Ottawa	2	60 2.4			Hd		Hd..	Hd..	650
25	John McNeil	Kangley	7	75 8.6		Sh.	Ho				600
26	Rinzer & Hachtetter	Ottawa	2	60 2.4		Dr.	Hd				600
27	Alloway & Stevie	Streator	7	35 4.6							500
28	William Thomas & Co	.. do	7	35 4.6		Sh.	Ho.				500
29	William Metz	Ottawa	2	55 2.4		Dr.	Hd				410
30	L. U. Brewer	.. do	2	70 2.4							400
31	John Taylor	.. do	2	50 2.0							350
32	William Saxby	.. do	2	70 2.4							300
33	James Edson	.. do	2	60 2.4							200
34	Daniel Vazaine	.. do	2	60 2.4							200
35	T. B. Farrell	.. do	2	45 2.4							200

Table 71—Continued.

LIVINGSTON COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Holsting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	14 mines										319,350
1	Cardiff Coal Co., 1	Cardiff	2	255	12 & 3	Sh.	St.	P.-R.	M...	Hd..	201,556
2	Pontiac Coal Co., Pontiac..	Pontiac	5-2	446	5.2			L.W.			55,650
3	Beggs, Davis & Co., Wal-										
	ton Bros.	Fairbury	5	180	5.0	"	"	P.-R.	"	"	16,830
4	Fairbury Coöperative Co ..	do	5	165	5.0						10,948
5	A. M. Barackman, Barack-										
	man	Streator	7	35	4.0	"	"		"	"	10,928
6	Streator Clay Mfg. Co	do	7	75	4.6	"	"		Hd..	"	10,650
7	Evans Bros.	do	7	60	4.8	"	Hd		"	"	2,317
8	Edward E. Evans	do	7	40	4.0	"	"		"	"	2,080
9	Alex. Anderson & Sons....	do	7	57	4.0	"	"		"	"	1,862
10	Benjamin Davis, 1	do	7	55	4.0	"	"		"	"	1,773
11	Streator Aqueduct Co.	do	7	30	5.0	"	St.		"	"	1,680
12	Harry Wonders	do	7	34	4.6	"	Hd		"	"	1,200
13	Wm. J. McMillen	do	7	50	4.0	"	"		"	"	9342
14	John Westerlund	do	7	45	4.0	"	"		"	"	85

LOGAN COUNTY.

	4 mines										373,251
1	Latham Coal Co., 1	Lincoln	5	290	5.0	Sh.	St.	P.-R.	M...	Hd..	146,194
2	Lincoln Coal Co., 1	do	5	285	5.0				C....		119,662
3	Citizens' Coal Mining Co. 1	do	5	290	5.0	"	"	"	"	"	98,335
4	Home Coal Co., 1	Mt. Pulaski...	5	360	4.0	"	"	"	"	"	9,060

Table 71—Continued.

MACON COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
8 mines.....										130,798	
1	Decatur Coal Co., 2.....	Decatur	5	614	4.0	Sh.	St.	L.W.	M...	Hd..	51,851
2	Decatur Coal Co., 1.....	.. do	5	612	4.0	"	"	"	"	"	46,356
3	Decatur Coal Co., 3.....	.. do	5	365	5.0	"	"	P.-R.	"	"	32,591

MACOUPIN COUNTY.

	22 mines.....										2,223,055
1	Chicago-Virden Coal Co., 1.	Virden.....	5	320	7.6	Sh.	St.	P.-R.	E....	M....	364,643
2	Consolidated Coal Co., 6...	Stannorton	5	322	6.0	"	"	P.-R.	C....	"	256,406
3	Madison Coal Co., 5.....	Mt. Olive	5	435	8.0	"	"	"	"	"	245,992
4	Consolidated Coal Co., 8.....	.. do	5	410	8.0	"	"	"	M....	"	229,654
5	Consolidated Coal Co., 7.....	Stannorton	5	360	6.8	"	"	"	"	"	210,760
6	Consolidated Coal Co., 10..	Mt. Olive	5	431	8.0	"	"	"	E....	"	195,875
7	Greenridge Mining Co.....	Girard	5	354	6.6	"	"	"	M....	Hd..	179,927
8	Virden Coal Co.....	Virden.....	5	320	7.6	"	"	"	"	"	165,841
9	Carlinville Coal Co.....	Carlinville	5	290	6.0	"	"	"	"	"	122,576
10	Consolidated Coal Co.....	Gillespie.....	5	388	6.6	"	"	"	"	"	77,859
11	Girard Coal Co.....	Girard	5	334	6.6	"	"	"	"	Hd..	67,608
12	Consolidated Coal Co.....	Hornsby	5	398	6.6	"	"	"	"	M....	51,862
13	Weaver Coal & Coke Co...	Nilwood	5	325	6.0	"	"	"	"	Hd..	42,420
14	Wm. Nell & Co.....	Bunker Hill..	5	250	5.6	"	"	"	"	M....	6,926
15	Davis Bros.....	Chesterfield..	P't	60	5.6	"	Ho.	"	"	Hd..	1,800
16	W. A. Bode.....	.. do	"	50	5.6	Sl..	"	"	"	"	1,050
17	G. B. Loper.....	.. do	"	38	5.6	Sh..	"	"	"	"	954
18	Lueking Bros.....	Fosterburg....	5	75	3.9	"	"	"	"	"	842
19	Dugger & Tully.....	Scottsville	1	30	2.4	Sl..	"	"	"	"	480
20	Geo. Harbaugh.....	Chesterfield..	P't	50	5.6	Sh..	"	"	"	"	420
21	T. R. Hands.....	.. do	"	50	5.6	"	"	"	"	"	140
22	Jardon & Lansford.....	Bunker Hill..	5	230	5.6	"	"	"	"	"	120

Table 71—Continued.

MADISON COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Holting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	31 mines.....										2,551,587
1	Donk Bros. C. & C. Co., 1..	Collinsville ..	6	137	6.0	Sh.	St.	P.-R.	M.	H.	393,800
2	Staunton Coal Co., 1.....	Staunton	6	292	6.0					M.	304,843
3	Madison Coal Co., 2.....	Glen Carbon..	6	110	6.0						253,300
4	Madison Coal Co., 4.....	do	6	130	6.0						252,479
5	Donk Bros. C. & C. Co., 3..	Troy	7	273	5.0					H.	236,300
6	Lumaghi Coal Co., 2.....	Collinsville...	6	227	6.0					M.	217,802
7	Donk Bros. C. & C. Co., 2..	do	6	227	7.0						196,200
8	Con. Coal Co., Abbey 3.....	do	6	146	7.0						139,063
9	Con. Coal Co., Heinz Bluff.	do	6	168	7.0						129,670
10	Kerns-Donnlewald, 1.....	Worden.....	6	270	7.0						120,982
11	Madison Coal Co., 3.....	Edwardsville..	6	217	6.0					Hd.	112,262
12	Henrietta Coal Co.....	do	6	217	6.0						56,630
13	Con. Coal Co., Brookside..	Troy	7	278	5.0						50,826
14	Lumaghi Coal Co., 1.....	Collinsville...	6	160	7.0						49,643
15	Edwardsville H. T. C. Co..	Edwardsville..	6	131	4-6						9,800
16	Bullock Coal Co.....	Collinsville...	6	171	7.0						5,049
17	Terminal Coal Co.....	Edwardsville..	6	120	4-6						4,796
18	Interstate C. & Min. Co..	Worden.....	6	275	6.0						3,000
19	Frank Eccles.....	North Alton..	1	80	2.0		Ho.				2,210
20	Frank Kortcamp.....	do	1	60	2.0						2,000
21	Geo. Kabel.....	Moro.....	6	85	4.0						1,400
22	Wm. Backs.....	Carpenter.....	6	85	5.0						1,281
23	The Clover Coal Mining Co.	New Douglas..	5	437	5.0						1,210
24	Perry Meyers.....	Bethalto.....	6	65	4.0						1,200
25	John Spencer.....	do	6	65	4.0						1,200
26	Peter Sydall.....	North Alton..	1	80	2.0						1,200
27	James Hill.....	Fostersburg..	6	70	3.0						1,050
28	Sam McDonald.....	Moro.....	6	45	5.0						1,000
29	John E. Mitchell.....	Prairie town..	5	160	6.0						1,000
30	F. R. Fredericks.....	Upper Alton..	1	75	2.0						360
31	W. Richards.....	Moro.....	6	45	5.0						200

MARION COUNTY.

	6 mines.....										1,002,047
1	Pittenger & Davis, 3,4.....	Centralia.....	6	637	6	Sh.	St.	P.-R.	E.	Hd.	391,176
2	Centralia Min. & Mfg. Co., 2	do	6	576	6						272,905
3	Odin Coal Co., 1.....	Odin.....	6	714	6					Mule	218,713
4	Sandoval Coal Co., 1.....	Sandoval.....	6	609	6				C.-M.	Hd.	108,015
5	Kinmundy Coal Co.....	Kinmundy.....	4	871	4				M.		5,923
6	Salem Coal Co.....	Salem.....	4	885	4						5,315

Table 71—Continued.

MARSHALL COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Holisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	15 mines.....										465,079
1	Devlin Coal Co. 1.....	Toluca.....	22	512	2.8	Sh.	St.	L. W.	E.....	Hd..	336,047
2	Wenona Coal Co. 1.....	Wenona.....	22	555	2.10				C.....		113,427
3	Marquette Coal Co.....	Sparland.....	22	64	2.6				M.....		10,529
4	R. G. Ingram.....	do.....	22	4		Dr.	Hd	P.-R	Hd..		1,500
5	Frank A. Barr.....	do.....	22	4							640
6	Ed. Bennett.....	Chillicothe.....	22	4							600
7	Cyrus Wright.....	Sparland.....	22	4							520
8	W. E. Frisbie.....	do.....	22	4							410
9	William Horrocks, Jr.....	Henry.....	22	4							286
10	William Bough.....	do.....	22	4							280
11	Bernard Lanning.....	Sparland.....	22	4							208
12	James Medearis.....	Henry.....	22	4							200
13	Louis Nighswonger.....	Sparland.....	22	4							192
14	Joseph Caley.....	Henry.....	6	4							120
15	William Lopeman.....	do.....	7	4							120

McDONOUGH COUNTY.

	56 mines.....										43,394
1	Rippetoe & Rundle, 38.....	Colchester.....	2	63	2.6	Sh.	Hd	P.-R.	Dog..	Hd..	14,428
2	Burney & Co.....	do.....	22	40	2.4	Dr.					3,224
3	John Wilson.....	do.....	22	40	2.4						2,765
4	John Nee.....	do.....	22	40	2.6	Sh.	Ho.				2,080
5	Williams Coal Co.....	do.....	22	50	2.4	Dr.	Hd				1,600
6	R. Oldham.....	do.....	22	40	2.4	Sh.					1,509
7	Atkinson Bros.....	do.....	22	40	2.4	Dr.					1,501
8	Wm. Edington.....	do.....	22	40	2.4	Sh.	Ho.				1,222
9	Michael Humes.....	do.....	22	40	2.4	Dr.	Hd				1,000
10	Thomas E. Wilson.....	do.....	22	40	2.4	Sh.	Ho.				962
11	J. C. Teel.....	do.....	22	40	2.4	Dr.	Hd				905
12	O. Baird.....	do.....	22	40	2.4						760
13	Fred Reunker.....	Bushnell.....	22	40	2.4				Hd..		720
14	Geo. Foster.....	Colchester.....	22	40	2.4	Sh.	Ho.		Dog..		672
15	John Berry.....	Macomb.....	22	40	2.4		Hd		Hd..		600
16	Jackson Gillingan.....	Industry.....	22	40	2.4	Sl.					500
17	Wm. Kipling.....	Colchester.....	22	50	2.4	Dr.			Dog..		480
18	John Pearson.....	do.....	22	40	2.4	Sh.	Ho.				461
19	James Gordon & Sons.....	do.....	22	30	2.4	Dr.					420
20	Waddle Bros.....	Tennessee.....	22	40	2.4		Hd		Hd..		416
21	John Rudee.....	Colchester.....	22	40	2.4	Sh.	Ho.		Dog..		400
22	Clay Nudd.....	LaHarpe.....	22	40	2.4	Dr.	Hd		M.....		360
23	Andrew Nelson.....	Colchester.....	22	40	2.4	Dr.	Hd		Dog..		321
24	Andrew Swanson.....	do.....	22	40	2.4						320
25	Anton Lokosik.....	do.....	22	40	2.4	Sh.					320
26	Wm. Baker.....	Industry.....	22	40	2.4	Dr.			Hd..		300
27	Geo. McIntire.....	do.....	22	40	2.4						300
28	Geo. Polonus.....	Colchester.....	22	50	2.4				Dog..		260
29	Eli Hilliard.....	do.....	22	50	2.4						250
30	Lewis & Lewis.....	do.....	22	40	2.4						245
31	Chas. Porter.....	Macomb.....	22	40	2.4	Sh.	St.		Hd..		240
32	Wayland Bros.....	Colchester.....	22	40	2.4	Dr.	Hd		Dog..		240
33	Richard Laitz.....	do.....	22	40	2.4						240
34	Wm Hudson.....	do.....	22	40	2.4				Hd..		216

Table 71—Continued.

McDONOUGH COUNTY—Concluded.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
35	T. L. Bowman	Industry.....	2	40	2.4	Sh.	Ho.	P.-R.	Hd.	Hd.	210
36	W. C. Stoneking	Siesta.....	2	40	2.4	Dr.	Hd.				208
37	Putt Bros	Colchester.....	30	2.4					Dog.		205
38	Simon Kosch.....	Macomb.....	2	2.4					Hd.		120
39	D. E. Perry	Colchester.....	2	2.4					Dog.		120
40	Geo. Mordue	do	2	2.4		Sh.	Ho.				120
41	Wm. Robinson.....	do	2	2.4		Dr.					120
42	J. S. Vowter	do	2	2.4			Hd.				120
43	Darrah Bros	Blandinsville.....	2	2.4					Hd.		116
44	Wm. Webster.....	Colchester.....	2	2.4					Dog.		110
45	Andrear & Newnker	Bushnell.....	2	2.4					Hd.		100
46	Chas. Kost.....	Macomb.....	2	2.4							100
47	King & Peck.....	Colchester.....	2	2.4					Dog.		100
48	Wm. Hoar.....	do	2	2.4							100
49	A. A. Wagler.....	do	2	2.4		Ho.					100
50	Frank Vogler.....	Siesta.....	2	2.4		Hd.			Hd.		80
51	Joseph Bunt.....	Colchester.....	2	2.4					Dog.		80
52	Guy & Co.....	do	2	2.4		Dr.					70
53	Amos Ebben.....	do	2	2.4							68
54	Wilson & Thornton	do	2	2.4							60
55	John Betson.....	do	2	2.4							50
56	John Larson.....	do	2	40	2.4						40

McLEAN COUNTY.

3 mines.....											220,611
1	McLean County Coal Co., 1	Bloomington..	2&5	541	3.6	Sh.	St.	L.W.	C....	Hd..	155,122
2	Colfax Coal Co., 1.....	Colfax	6	400	5.6			P.-R.	M....		59,189
3	Berwick Coal Co., 1.....	Chenoa	6	275	4.0						6,300

MENARD COUNTY.

16 mines.....											492,328
1	Greenville Coal & Min. Co.	Greenville....	5	109	6.0	Sh.	St.	P.-R.	E....	Hd..	141,064
2	Wabash Coal Co.....	Athens.....	5	187	6.0				M....		132,439
3	Athens Mining Co.....	do	5	200	6.0						87,806
4	Talula Coal Co.....	Talula	5	185	6.0						43,280
5	South Mountain Coal Co.	Petersburg...	5	85	6.0	SL.					34,804
6	Petersburg Coal Mining Co	do	5	90	6.0	Sh.					17,816
7	Valley Coal Co.....	do	5	85	6.0						15,000
8	G. F. Johnson.....	Middletown..	5	165	6.0		Hd		Hd..		5,240
9	Middletown Coal Co.....	do	5	210	6.0		St.		M....		4,200
10	Arthur Wainwright.....	Sweetwater..	5	170	6.0		Hd		Hd..		2,759
11	Wm. Denton.....	Petersburg...	5	60	6.0						2,640
12	Joseph Mullegram.....	do	5	60	6.0						2,040
13	Chas. O'Neill.....	do	5	80	6.0						1,600
14	Duncan Coal Co.....	Tice.....	5	80	6.0						610
15	Bryant Coal Co.....	Loyd	5	80	6.0						520
16	Peter Becker.....	Petersburg...	5	75	6.0						510

Table 71—Continued.

MERCER COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
16 mines.....											648,070
1 Empire Coal Co., 3.....	Gilchrist.....	1	140	4.3	Sh.	St.	P.-R	M	Hd		211,218
2 Coal Valley Mining Co., 2.....	Sherrard.....	1	203	3.6				C			164,662
3 Alden Coal Co., 2.....	Wanlock.....	1	135	4.6							158,070
4 Coal Valley Mining Co., 1.....	Cable.....	1	60	4.0							86,812
5 Lilliman & Co.....	do.....	1	40	4.0		Ho.		Hd			6,400
6 Peter Docherty.....	Pre-emption.....	1	78	4.0		St.					4,100
7 Arthur Jones.....	Viola.....	1	33	4.0							2,940
8 W. P. Williams.....	Aledo.....	1	58	4.0		Ho.					2,448
9 B. B. Peterson.....	Cable.....	1	40	3.6							2,400
10 Wm. Penman.....	Pre-emption.....	1	48	4.0							2,400
11 G. W. Martin.....	Laoc.....	1	20	4.0	Sl.						2,250
12 Joseph Williams.....	Pre-emption.....	1	35	4.0	Sh.						2,000
13 J. B. Martin.....	Laoc.....	1	68	4.0							1,900
14 S. J. Young.....	Griffin.....	1	28	2.6							620
15 M. Beers & Son.....	Cable.....	1	15	3.0	Sl.						250
16 U. S. Clay Mfg. Co.....	Griffin.....	1	35	2.6	Sh						200

MONTGOMERY COUNTY.

5 mines.....											420,312
1 Hillsboro Coal Co.....	Hillsboro.....	5	440	7.6	Sh.	St.	P.-R.	C	M		158,980
2 Montgomery Coal Co.....	Patsley.....	5	534	8.0				M	Hd		89,515
3 Litchfield Mining & P. Co.....	Litchfield.....	1-5	681	5.0							88,613
4 Clover Leaf Coal & M. Co.....	Coffeen.....	5	534	8.0							76,859
5 Raymond Coal Co.....	Raymond.....	5	434	3.3			L.W.				6,345

MORGAN COUNTY.

2 mines.....											3,840
1 F. Wagstaffe.....	Murryville.....	5	70	4.6	Sh.		P.-R.		Hd		3,120
2 Jacob Stocker.....	Arenzville.....	1		2.6	Dr.						720

Table 71—Continued.

PEORIA COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	69 mines.....									920,716	
1	Sholl Brothers, 3.....	Peoria	5	80	4.4	Sh.	St.	P.-R.	C.....	Hd..	90,500
2	Newsam Bros., K mine.....	.. do	5	180	4.4	Sl.					71,609
3	Wolschlag Co-op. Coal Co.	.. do	5	150	4.4						67,477
4	Clark Coal & Coke Co.	.. do	5	105	4.2	Sh.			M.....		63,792
5	Howard & Taylor	Edwards	5	120	4.2	Dr.					61,133
6	Newsam Bros., R mine	Peoria	5	90	4.4	Sh.					55,565
7	Collier Co-operative C. Co.	Bartonville.....	5	180	4.4						46,733
8	Vickery Bro.....	Peoria	5	75	4.4	Dr.					34,260
9	F. P. Schmidt & Sons, 1,3.....	.. do	5	80	4.4		Ho.				31,659
10	Newsam Bros., H mine	.. do	5	250	4.2	Sh.	St.				30,466
11	Reents Bros	Kramm	5	80	4.0	Dr.	Ho.				29,700
12	C. B. Kramm & Bro.....	Edwards	5	80	4.2						28,600
13	Newsam Bros., S mine.....	Peoria	5	130	4.2	Sh.	St.				27,577
14	W. E. Foley	Mapleton	5	80	4.6	S.....					26,820
15	Peter Grant & Son, Exc'r, 1.....	Peoria	5	105	4.2	Sh.					20,935
16	James Walker	Mapleton	5	70	4.6	Sl.					20,600
17	Elmwood Coal Co	Elmwood	5	120	3.6	Sh.					18,240
18	German Coal Co	Peoria	5	100	4.6	Sl.					17,670
19	Winters Coal Co	Bartonville.....	5	90	4.4						17,400
20	Third Vein Coal Co	Orchard Mine	2	160	2.6	Sh.					16,420
21	F. P. Schmidt & Son., 2.....	Peoria	5	80	4.4	Dr.	Ho.				16,415
22	Treasurer Coal Co	Pottstown	5	60	4.6						11,695
23	Standard Coal Co	Peoria	5	80	4.2	Sh.					10,260
24	Hillard & Snedden	.. do	5	90	4.6	Sl.					9,210
25	Ball Coal Co	Bartonville.....	5	90	4.4	Sh.	St.				8,660
26	Gigby, Cussack & Edwards	Edwards	5	100	3.8	Dr.	Ho.				8,890
27	Adams Coal Co	Peoria	5	55	4.2	Sh.	St.				6,240
28	Geo. Keller & Sons.....	Bartonville.....	5	90	4.4						5,771
29	S. Hurst	.. do	5	40	4.4	Dr.	Hd			Hd..	4,840
30	Jefford & Bro.....	Kingston	5	120	4.6		Ho.		M.....		4,648
31	White Coal Co., 1.....	Peoria	5	85	4.4						4,248
32	Limestone Coal Co	.. do	5	80	4.4	Sh.	St.				4,112
33	Mahn Coal Co	.. do	5	50	4.2						4,056
34	Joseph Crew	Chillicothe	6	90	4.6		Ho.				3,648
35	Smith Miller	Mapleton	5	110	4.4						3,400
36	Mann Bros.....	Peoria	5	130	4.6						3,210
37	Wantling & Burdett	Pottstown	5	80	4.0	Dr.					2,907
38	A. W. Higbee	Princeville	6	70	4.6	Sh.	St.				2,150
39	Taylor & Sons	.. do	6	80	4.6						2,014
40	H. Goodman	Mapleton	5	80	4.4	Dr.	Ho.				2,000
41	John Hirdois, 1.....	Peoria	5	55	4.2						2,000
42	Wm. Kelley	Brimfield	6	40	5.0	Sh.					2,000
43	L. Schneider, 1.....	Peoria	5	55	4.2	Dr.					1,820
44	Fair Oak Coal Co., 1h.....	.. do	5	60	4.4	Sh.					1,800
45	H. Durant	Brimfield	6	40	5.0						1,620
46	Geo. Rattleback	.. do	6	40	5.0						1,410
47	W. H. Poole	Kickapoo	6	33	4.6						1,400
48	W. E. Hamilton	Mapleton	5	80	4.6						1,320
49	Oscar Graves	Duncan	6	40	4.6						1,260
50	James Pemble	Elmwood	6	40	5.0		Ho.				1,260
51	Martin & Lane	Peoria	5	55	4.2	Dr.					1,200
52	Chas Carroll	Duncan	6	40	4.6	Sh.					1,110
53	William Berry	Monica	6	40	4.6						965
54	Cluskey & Simons	.. do	6	50	4.6						890
55	Geo. Mulvaney	Brimfield	6	40	4.6						860

Table 71--Continued.

PEORIA COUNTY--Concluded.

Number	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
56	D. T. Sanders & Sons	Glasford	5	90	4.6	Dr.	Ho.	P.-R.	M...	Hd..	849
57	David Roberts	Mapleton	5	160	4.4	..	..	..	..	..	640
58	Ogden Hayes	do	5	32	4.4	..	Hd	..	..	..	630
59	Wm. Clarkson	Edwards	5	85	4.0	..	Ho.	..	Hd..	..	620
60	S. A. Moore	Brimfield	6	40	4.6	Sh.	..	..	..	..	610
61	Wm. Black	Smithville	6	60	4.6	Sh.	Hd	..	..	..	510
62	Wm. Johnson	Hanna	6	50	5.0	Sh.	Hd	..	M...	..	510
63	R. Clarkson	Alta	6	90	4.6	Dr.	Ho	..	Hd..	..	450
64	Joseph Marie	Pottstown	5	90	4.4	Sl.	..	..	..	..	420
65	Chas. Abys	Laura	6	50	4.6	Dr.	..	..	..	..	410
66	E. C. Snyder	Edwards	5	80	4.0	..	Ho.	..	..	..	380
67	Chas. Kingsley	do	5	80	4.4	..	Hd	..	..	..	360
68	Chas. Evins	Laura	6	60	4.6	..	..	..	..	..	320
69	Fred Martin	Peoria	5	50	4.4	Sh.	Ho.	..	M...	..	160

PERRY COUNTY.

26 mines			..	..	..	..	..	..	..	..	1,031,751
1	Willis Coal & Mining Co., 1	Willisville	6	80	6	Sh.	St.	P.-R.	El..	H&M	201,211
2	White Walnut Coal Co., 1	Pinckneyville	6	90	6	..	..	..	M...	Hd..	150,851
3	Horn Colliery Co., 1	DuQuoin	6	80	7	..	..	..	E...	..	106,451
4	Weaver Coal & Coke Co., 1	do	6	85	6	..	..	..	M...	..	87,096
5	Greenwood-Davis C'l Co., 1	do	6	38	6	..	..	..	..	..	77,442
6	Willis Coal & Mining Co., 3	do	6	90	6	..	..	..	..	..	62,439
7	Weaver Coal Co., 4	Pinckneyville	6	90	6	..	..	..	..	..	60,253
8	Lake Superior Coal Co., Pope mine	DuQuoin	6	44	6	..	..	..	..	..	47,105
9	Soner & Co., Barnard	Cutler	6	122	6	..	..	..	..	..	45,994
10	Bailey Bros. Coal Co., 3	Sunfield	6	80	5.6	..	..	..	..	..	41,750
11	Weaver Coal Co., 3	DuQuoin	6	62	6	..	..	..	..	..	36,077
12	Old Kentucky Coal Co., 1	Tamaroa	6	200	5.6	..	..	..	..	..	26,729
13	Morris Bros., 1	DuQuoin	6	22	5.6	..	..	..	..	..	25,146
14	Little Muddy Coal Co., 1	Tamaroa	6	220	5.6	..	..	..	..	..	20,000
15	New Moon Mining Co., 1	DuQuoin	6	25	6	Sl.	..	..	..	..	11,991
16	Chicago & Coulterville Coal Co., 1	Coulterville	6	282	6	Sh.	..	..	..	..	11,125
17	Strait Coal Co., 1	Pinckneyville	6	86	6	..	..	..	..	..	4,000
18	Weaver Coal Co., 2	DuQuoin	6	50	5.6	..	..	..	..	..	4,092
19	Lake Superior Coal Co., Williams	do	6	30	5.6	..	..	..	..	..	3,750
20	Missouri & Ill. Coal Co., 1	Willisville	6	82	6	..	..	..	..	..	3,529
21	Wilson & Snoffard	DuQuoin	6	24	6	..	..	..	..	..	2,800
22	Dan Pyl's, Sunshine	do	6	24	6	..	..	..	..	..	800
23	Gruner & Jeuner	Pinckneyville	6	35	6	..	..	..	..	..	400
24	Roe & Co.	do	6	35	6	..	..	..	..	..	400
25	B. F. Glass	Willisville	6	20	5.6	..	..	..	..	..	200
26	Christopher Heifung	Pyets	6	20	5.6	Sl.	..	..	..	..	120

Table 71—Continued.

RANDOLPH COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
14 mines.....			.....	.....	.....	.....	.....	.....	.....	478,125	
1	West'n A. C. & C. Co., Ed'n	Sparta	6	140	6.0	Sh.	St.	P.-R.	M.....	Hd..	107,014
2	Coulterville Mining Co., 1..	Coniterville ..	6	320	6.0	.....	.....	.....	.....	.....	67,052
3	Tilden Coal Co., 1	Tilden	6	180	6.0	.....	.....	.....	.....	.....	53,234
4	Crystal Coal Co., 1.....	do	6	209	6.0	.....	.....	.....	.....	.....	49,768
5	Goalby Coal Co., 1.....	Percy	6	70	6.0	.....	.....	.....	.....	.....	45,732
6	Rosborough Coal Co., 1....	Sparta	5	30	5.0	.....	.....	.....	.....	.....	44,875
7	Illinois Fuel Co., 3.....	do	6	36	6.0	.....	.....	.....	.....	.....	44,213
8	Davison & Fulton C. Co., 1.	do	6	80	6.0	.....	.....	.....	.....	.....	37,296
9	A. E. Powell & Co., 1.....	Coniterville ..	6	176	6.0	.....	.....	.....	.....	.....	10,487
10	Boyle Coal Co.....	Sparta	6	96	6.0	.....	.....	.....	.....	.....	7,290
11	Illinois Fuel Co., 4.....	do	6	72	6.0	.....	.....	.....	.....	.....	5,273
12	Moffat Coal Co., 1.....	do	6	135	6.0	.....	.....	.....	.....	.....	4,171
13	Geo. Stanway, 1.....	Blair	5	24	5.0	.....	.....	.....	.....	.....	1,200
14	John & Geo. Meyers, 1.....	Percy	5	20	5.0	.....	.....	.....	.....	.....	400

ROCK ISLAND COUNTY.

17 mines.....			---	---	---	---	---	---	---	---	85,700
1	Silvis Mining Co., 2.....	Carbon Cliff..	1	94	3.8	Sh.	St.	P.-R.	M	Hd..	35,210
2	J. J. Bryce & Son.....	Coal Valley..	1	60	4.0	..	..	..	Hd..	..	21,254
3	Sackville & Bros.....	.. do	1	50	4.0	..	..	..	..	..	12,000
4	John Hynd & Son.....	Loding.....	1	50	4.0	..	Ho.	..	..	..	7,714
5	Stoddard & Summerson...	Coal Valley..	1	20	4.0	..	..	..	..	..	2,809
6	Loding Bros.....	Loding.....	1	75	4.0	..	St.	..	..	..	2,360
7	Wm. Parker.....	Milan.....	1	60	3.6	..	..	..	..	..	1,645
8	Stone Bros.....	Carbon Cliff..	1	60	3.0	..	Ho.	..	..	..	580
9	Gribbin & Fields.....	Loding.....	1	50	3.0	..	..	..	..	..	300
10	Black Diamond Coal Co....	Coal Valley..	1	40	3.6	..	St.	..	..	..	274
11	D. L. Edwards.....	.. do	1	20	3.6	Sl.	Ho.	..	..	..	230
12	Z. H. Wynn.....	.. do	1	70	3.0	Sh.	..	..	..	..	200
13	Fred Vonach.....	Hampton.....	1	....	3.0	Dr.	Hd	..	..	..	200
14	John Summerson.....	Coal Valley..	1	....	3.6	..	..	..	..	..	200
15	Grothe Bros.....	Moline.....	1	....	3.0	..	..	..	..	..	184
16	Guckert Bros.....	Hampton.....	1	15	3.0	Sl.	Ho.	..	..	..	160
17	Wm. Wooley.....	Coal Valley..	1	15	3.0	..	..	..	..	..	80

Table 71—Continued.

SALINE COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Holting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	16 mines.....										354,172
1	Davenport Coal Co., 1.....	Ledford.....	5	144	8.0	Sh.	St.	P.-R.	M.....	Hd..	130,722
2	Harrisburg M. & C. Co., 1.....	Harrisburg.....	5	220	8.0						97,060
3	Clifton Coal Co., Clifton.....	.. do	5	143	7.0						82,000
4	Saline County Coal Co., 1.....	.. do	5	120	7.0						24,215
5	The New Coal Co., 1.....	.. do	5	150	7.0						8,007
6	Gallatin Coal Co., 1.....	Gallatin.....	6	340	5.8						6,825
7	C. M. Leeper, 1.....	Eldorado.....	5	40	3.6				Ha..		2,693
8	Loyd & Evans, 1.....	.. do	5	40	3.6						1,500
9	Gill Shelton, 1.....	Cottage Grove.....	6	25	4.3	Dr.					250
10	James Yates, 1.....	.. do	6	25	4.3						250
11	H. P. Sittig, 1.....	Stonefort.....	6	20	3.0						200
12	Hudgens & Reeder, 1.....	.. do	6	30	3.0						200
13	Andy Cogdill, 1.....	.. do	6	30	3.0						100
14	R. M. Barry, 1.....	Cottage Grove.....	6	18	4.0						100
15	John Ward, 1.....	Mitchellsville.....	6	24	4.0						60
16	Maggie M. Sisk, 1.....	Cottage Grove.....	6	40	4.3						50

SANGAMON COUNTY.

	30 mines.....										4,386,526
1	C. W. & V. Coal Co.....	Thayer.....	5	292	7.11	Sh.	St.	P.-R.	E.....	M.....	403,758
2	Madison Coal Co., 6.....	Divernon.....	5	318	8.0				M.....		306,842
3	Jones & Adams.....	Springfield.....	5	250	5.9				E.....	Hd..	250,905
4	Chicago-Virden Coal Co., 2.....	Auburn.....	5	259	7.0				M.....		269,889
5	Springfield C. & M. Co., 2.....	Riverton.....	5	232	5.9						258,650
6	Victor Coal Co.....	Pawnee.....	5	324	7.6						228,190
7	Capitol Co-Op. Coal Co.....	Springfield.....	5	240	5.9				C.....		181,991
8	Springfield C. & M. Co., 4.....	.. do	5	245	5.9				M.....		164,032
9	Springfield C. & M. Co., 5.....	.. do	5	250	5.9						152,430
10	Springfield C. & M. Co., 3.....	.. do	5	250	5.9						146,350
11	Springfield Co Op. Coal Co.....	.. do	5	250	5.9						146,108
12	Spanlding Coal Co., 1.....	Spaulding.....	5	238	5.9						141,009
13	West End Coal Co.....	Springfield.....	5	150	5.9						139,400
14	Springfield C. & M. Co., 1.....	Riverton.....	5	230	5.9				C.....		129,252
15	Cantrall Co-Op. Coal Co.....	Cantrall.....	5	213	6.0				M.....		122,637
16	Sangamon Coal Co.....	Springfield.....	5	265	5.9						121,313
17	Woodside Coal Co.....	.. do	5	250	5.9						118,009
18	Republie Iron & Steel Co.....	.. do	5	245	5.9						117,932
19	Wabash Coal Co., 1.....	Dawson.....	5	259	5.2				M.....		110,312
20	Williamsville Coal Co.....	Selbytown.....	5	269	5.6						109,627
21	Spaulding Coal Co., 2.....	Bissell.....	5	220	5.9						107,431
22	Auburn & Alton Coal Co.....	Auburn.....	5	268	7.6						107,126
23	Chicago-Virden Coal Co., 3.....	Chatham.....	5	259	7.0						95,622
24	Barclay C. & M. Co.....	Barclay.....	5	249	5.9				E.....		95,451
25	Citizens C. & M. Co., A.....	Springfield.....	5	210	5.9				M.....		94,924
26	Citizens C. & M. Co., B.....	.. do	5	205	5.4						94,284
27	Jefferson C. & M. Co.....	.. do	5	255	5.9						89,390
28	Lincoln P. C. M. Co.....	.. do	5	240	5.9						25,686
29	Trutter Coal Co.....	Pleasant Pl's.....	5	129	5.6						16,698
30	J. P. Gordon.....	Salisbury.....	5	150	5.6						1,268

Table 71—Continued.

SCHUYLER COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	15 mines.....		...	...	...	...	...	...	...	...	15,734
1	Wm. Cummings.....	Rushville....	5	48	4.6	Sl..	St..	P.-R.	M...	Hd..	2,639
2	B. F. Harris.....	Ray.....	2	50	2.6	Dr.	Hd	..	..	..	2,000
3	Geo. Montooth.....	do.....	5	50	2.6	..	..	..	..	..	2,000
4	Robert Kerr.....	Rushville....	5	48	4.6	Sh.	Ho.	..	..	..	2,000
5	Ralph Strong.....	Pleasant View	5	40	4.6	Dr.	Hd	..	..	..	1,280
6	Williams & Clark.....	Rushville....	2	40	4.6	Sl..	Ho	..	..	..	1,038
7	Hedrick & Wetmore.....	Frederick....	2	50	2.6	Dr.	Hd	..	..	..	871
8	Rufus Porter.....	Ray.....	2	50	2.6	..	..	..	..	..	869
9	Alfred Nesley.....	Pine Grove...	2	50	2.6	..	..	..	..	..	747
10	V. L. Roosa.....	Pleasant View	5	34	4.6	Sh.	Ho.	..	..	..	620
11	John Cagle.....	Littleton.....	2	50	2.6	Dr.	Hd	..	..	..	530
12	John W. Hamilton.....	Frederick....	2	50	2.6	..	..	..	..	..	400
13	F. W. Croxton.....	Pleasant View	5	30	4.6	..	..	..	..	..	320
14	O. A. Alexander.....	Huntsville....	2	35	2.3	Dr.	Hd	..	..	..	220
15	Geo. Edwards.....	do.....	2	35	2.3	Sh.	Ho.	..	..	..	200

SCOTT COUNTY.

	18 mines.....		...	...	...	...	...	...	...	...	23,370
1	Wm. H. Bates & Co.....	Winchester...	1	96	2.6	Sh.	St..	P.-R.	M...	Hd..	15,778
2	John McGuire.....	Alsey.....	1	...	2.6	Dr.	Hd	..	..	..	1,135
3	Charles McElwee.....	Winchester...	1	60	2.6	Sh.	..	..	..	..	1,106
4	Wm. G. Parker.....	do.....	1	90	2.6	..	Ho.	..	..	..	957
5	P. McGuire.....	Alsey.....	1	...	2.6	Dr.	Hd	..	..	..	927
6	Fred Meyers.....	Neelyville....	1	...	2.6	..	..	..	..	..	800
7	Six & Peake.....	Exeter.....	1	...	2.6	..	..	..	..	..	560
8	Jackson Jones.....	Winchester...	1	...	2.6	..	..	..	..	..	480
9	Fred Brockhouse.....	Chapin.....	1	...	2.6	..	..	..	..	..	420
10	Ed Ramft.....	Exeter.....	1	...	2.6	..	..	..	..	..	354
11	Chas. Priest & Co.....	Bluffs.....	1	...	2.6	..	..	..	..	..	245
12	Ed Berry.....	Exeter.....	1	...	2.6	..	..	..	..	..	140
13	E. Yarding.....	do.....	1	...	2.6	..	..	..	..	..	130
14	B. Brown.....	do.....	1	45	2.6	..	..	..	..	..	120
15	Wm. Benson.....	Winchester...	1	...	2.6	Sh.	Ho.	..	..	..	110
16	Wm. Kunds.....	Exeter.....	1	...	2.6	Dr.	Hd	..	..	..	108
17	J. Reyborn.....	Winchester...	1	...	2.6	..	..	..	..	..	80
18	Wm. Windendorf.....	Chapin.....	1	...	2.6	..	..	..	..	..	20

Table 71—Continued.

SHELBY COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Holisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	8 mines.....										108,149
1	Moweaqua M. & Mfg. Co., 1	Moweaqua....	5	618	5.4	Sh.	St.	P.-R.	M.	H.-M.	95,742
2	B. F. Strech, 1.....	Shelbyville....	16	108	1.8				Hd.	Hd.	3,520
3	Weitlick Bros., 1.....	Findlay.....	16	80	2.4						3,296
4	Mike Brophy, 2.....	Shelbyville....	16	80	2		Ho.				2,600
5	W. F. Gallagher, 1.....	Modena.....	16	68	2						1,600
6	John Richardson.....	Shelbyville....	16	100	1.8						1,000
7	Jesse Bowman, Klondike..	do.....	16	98	2						391
8	Charles Michaels.....	Fancher.....	16	50	2	Dr.	Hd				200

STARK COUNTY.

	22 mines.....										39,406
1	Wyoming Coal Co., 1.....	Wyoming.....	6	124	4.3	Sh.	St.	P.-R.	Hd.	Hd.	11,000
2	Geo. R. Watson.....	do.....	6	92	4						5,958
3	J. M. Robinson.....	Elmira.....	6	45	4.6		Ho.				2,580
4	S. French.....	Bradford.....	6	104	4.6						2,600
5	Robinson & Watson.....	Wyoming.....	6	75	4.6						2,690
6	John Scott.....	Modena.....	6	60	4.6						1,940
7	James Higbee.....	Wyoming.....	6	80	4						1,640
8	Isalah King.....	do.....	6	120	4.6						1,456
9	Newton & Howard.....	Bradford.....	6	100	4.6						1,412
10	Ben Smith.....	Modena.....	6	40	4.6						1,400
11	John Catton.....	West Jersey..	4	...	4.3	Dr.	Hd				1,320
12	W. C. Bennick.....	Modena.....	6	52	4	Sh.	Ho.				800
13	Joseph Goode.....	Lombardville..	6	138	4.6						800
14	Chas. Montooth.....	Bradford.....	6	140	4.6						680
15	Bert Balentine.....	Toulon.....	6	...	4	Dr.	Hd				680
16	Foster Coulson.....	Wyoming.....	6	...	4						640
17	James K. Fuller.....	Modena.....	6	15	4	Sl.	Ho.				440
18	Fred Charlston.....	Wyoming.....	6	...	4	Dr.	Hd				280
19	Harry Storey.....	do.....	6	...	4						180
20	John Price.....	do.....	6	24	4	Sh.	Ho.				168
21	John Thurston.....	do.....	6	25	4						140
22	F. L. Keim.....	Lafayette.....	6	35	3.6						102

Table 71--Continued.

ST. CLAIR COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
63 mines.....			---	---	---	---	---	---	---	3, 134, 679	
1	Royal Coal Co., Royal.....	Belleville.....	6	180	6	Sh.	St.	P.-R.	M....	M....	197,300
2	St. L. & O'Fallon Coal Co., 1	do	6	110	6	..	..	..	..	Hd....	150,339
3	Muren Coal & Ice Co., 1.....	do	6	180	6	..	..	..	..	M....	124,061
4	Walnut Hill Coal Co.....	do	6	200	7	..	..	..	..	..	121,243
5	Kolb Coal Co., 1.....	Mascoutah.....	6	160	7	..	..	..	..	..	117,799
6	Madison Coal Co., 7.....	Glen Carbon.....	6	185	7	..	..	..	..	Hd....	102,881
7	Missouri & Illinois Coal Co	Rentchler	6	130	6	..	..	..	..	..	98,076
8	Joseph Taylor, Mentor.....	O'Fallon	6	210	7	..	..	..	..	..	97,125
9	Glendale Coal Co., 1.....	Belleville.....	6	120	7	..	..	..	..	M....	94,200
10	Kolb Coal Co., 2.....	Mascoutah.....	6	85	7	..	..	..	..	Hd....	88,796
11	Lenz Coal Co., Harmony.....	Belleville.....	6	125	7	..	..	..	..	M....	81,541
12	Joseph Taylor, Taylor.....	O'Fallon	6	200	7	..	..	..	..	Hd....	81,073
13	Lebanon Coal & Min. Ass'n	Lebanon	7	200	6	..	..	..	..	M....	75,553
14	Hippard Coal Co., 2.....	Belleville.....	6	80	7	..	..	..	..	..	70,770
15	Hippard Coal Co., 1.....	do	6	75	7	..	..	..	..	Hd....	69,775
16	Belleville & O'F. Coal Co.	do	6	120	7	..	..	..	..	M....	62,995
17	Daniel Zildorph, Marissa.....	Marissa.....	6	120	7	..	..	..	..	Hd....	60,930
18	Valley Coal & Mining Co.	East St. Louis	6	113	7	..	..	..	..	M....	60,000
19	Borders Coal Co.....	Marissa.....	6	112	7	..	..	..	..	Hd....	59,200
20	Oakland Coal Co.....	Belleville.....	6	175	7	..	..	..	..	M....	57,788
21	Summit Coal Co.....	do	6	190	7	..	..	..	..	Hd....	55,782
22	Ruby Coal Co.....	Caseyville.....	6	200	7	..	..	..	..	..	55,000
23	Dutch Hollow Coal Co.....	Freeburg.....	6	150	7	..	..	..	..	..	51,766
24	Consol. Coal Co., Green Mt.	Belleville.....	6	160	7	..	..	..	..	M....	50,894
25	Consol. Coal Co., Gartside, 4	do	6	205	6	..	..	..	..	..	49,324
26	Superior Coal & Min. Co.	do	6	180	7	..	..	..	..	..	49,232
27	Skellet Coal Co.....	do	6	160	6	..	..	..	..	..	49,043
28	O'Fallon Coal & Min. Co.	O'Fallon	6	186	6	..	..	..	..	..	48,476
29	Consol. Coal Co., White Oak	Marissa.....	6	175	6	..	..	..	..	Hd....	48,101
30	Chas. Hartman.....	Belleville.....	6	90	7	..	..	..	..	..	48,040
31	Consol. Coal Co., Schurman	do	6	125	7	..	..	..	..	M....	47,335
32	Oak Hill Coal Co.....	do	6	187	6	..	..	..	..	..	46,985
33	Tirre & Sons Coal Co.....	Lenzburg.....	6	191	6	..	..	..	..	Hd....	46,620
34	Mo. & Ill. Coal Co., Freeburg	Belleville.....	6	187	7	..	..	..	..	..	46,567
35	Eureka Coal Co.....	Marissa.....	6	114	7	..	..	..	..	M....	46,235
36	Mo. & Ill. C. Co., Wilderman	Belleville.....	6	90	6	..	..	..	..	Hd....	45,751
37	Highland Coal Co., 1.....	do	6	130	6	..	..	..	..	..	44,944
38	Sunlight Coal Co., 1.....	Freeburg.....	6	130	7	..	..	..	..	..	40,199
39	Johnson Coal Co.....	Marissa.....	6	120	7	..	..	..	..	M....	35,118
40	Enterprise Mining Co.....	Rentchler	6	120	7	..	..	..	..	Hd....	34,125
41	Theo. Michaels, Pittsburg.	Belleville.....	6	125	7	..	..	..	..	..	32,131
42	Donk Bros. Coal & Coke Co	do	6	..	7	Dr.	..	..	..	..	31,660
43	Consol. Coal Co., Richland.	do	6	90	7	Sh.	..	..	..	M....	30,255
44	Glendale Coal Co., 2.....	do	6	150	6	..	..	..	..	Hd....	28,540
45	Humboldt Coal Co.....	do	6	100	6	..	..	..	..	..	24,840
46	Consol. Coal Co., Rose Hill.	do	6	132	6	..	..	..	..	M....	24,144
47	Advance Coal Co.....	Marissa.....	6	87	7	..	..	..	..	Hd....	20,000
48	Fred Murphy.....	Belleville.....	6	60	6	..	..	..	..	..	20,000
49	Suburban Coal Co.....	do	6	160	7	..	..	..	..	..	19,707
50	Lake Superior Coal Co.....	do	6	55	6	..	..	..	..	..	15,062
51	Millsstadt Coal Co.....	Millsstadt.....	6	48	6	..	..	..	..	..	12,000
52	Abel Bros.....	Belleville.....	6	50	6	..	..	..	..	..	9,000
53	Frank Sargent.....	do	6	70	6	..	..	..	..	..	9,000
54	Consol. Coal Co., Knecht.....	do	6	125	7	..	..	..	..	M....	8,900
55	Dutch Hill Coal Co.....	New Athens.....	6	70	6	..	..	..	..	Hd....	7,143

Table 71—Continued.

ST. CLAIR COUNTY—Concluded.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Holting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
56	Taylor Bros.....	Belleville.....	6	35	6	Sh.	St.	P.-R.	M....	Hd..	5,000
57	Tower Grove Coal Co.....	.. do	6	140	6	..	..	..	..	..	5,000
58	John Harst.....	.. do	6	55	6	..	..	..	..	..	4,500
59	James Beaty.....	Mascoutsh.....	6	175	6	..	..	..	..	..	4,500
60	Wm. Pistor.....	Millstadt.....	6	46	6	..	..	..	..	..	3,500
61	Reeb Bros.....	Belleville.....	6	100	7	..	Ho.	..	..	..	2,000
62	Georgetown Road Coal Co.....	.. do	6	66	6	..	..	..	..	..	2,000
63	Lewis Grosman.....	High Prairie.....	6	20	6	..	..	..	..	..	1,000
64	Brennen & Co.....	Caseyville.....	6	..	6	Dr.	..	..	..	..	800
65	Dietrich Bros.....	Fayetteville.....	6	60	7	Sh.	St.	..	..	..	800
66	Benj. Johnson.....	High Prairie.....	6	20	6	..	..	..	..	..	800
67	Davies & Co.....	French Village.....	6	65	5	..	..	..	..	..	800
68	Ritchie & Co.....	.. do	6	..	5	Dr.	Ho.	..	..	..	800
69	Jos. Smith.....	High Prairie.....	6	..	6	..	..	..	..	..	500

TAZEWELL COUNTY.

16 mines.....			..	..	..	..	..	..	..	..	185,535
1	Edward Little, Hilliard 1.....	Peoria.....	5	100	4	Sh.	St.	P.-R.	M....	Hd..	34,000
2	Ubben Coal Co.....	Pekin.....	5	125	4	..	..	..	..	..	25,000
3	Lake Erie Coal Mining Co.....	Peoria.....	5	90	4	..	..	..	..	..	21,220
4	Edward Little, Hilliard 2.....	.. do	5	100	4	..	..	..	..	..	20,000
5	East Peoria Coal Co.....	.. do	5	85	4	..	..	..	..	..	19,226
6	A. G. Cummings.....	East Peoria.....	5	50	4	..	..	..	..	..	14,833
7	Grossweller Coal Co.....	Pekin.....	5	100	4	..	..	..	..	..	14,250
8	L. Grant & Sons.....	.. do	5	100	5	..	..	..	..	..	8,000
9	Backing Bros.....	East Peoria.....	5	90	4	..	..	..	..	..	6,510
10	Wm. Cruickshank & Son.....	.. do	5	65	4	..	..	..	..	..	6,325
11	B. & B. Coal Co.....	.. do	5	80	4	..	..	..	..	..	5,559
12	Bolander Bros.....	Pekin.....	5	100	4	..	..	..	..	..	4,500
13	G. Gablehauser.....	East Peoria.....	5	90	4	..	Ho.	..	..	..	3,640
14	Manhattan Coal Co.....	.. do	5	90	4	St.	St.	..	..	..	1,322
15	F. Seffer.....	.. do	5	70	4	Dr.	Hd.	..	..	..	520
16	Eastern Coal Co.....	.. do	..	..	..	Sh.	St.	..	..	..	300

VERMILION COUNTY.

60 mines.....			..	..	..	..	..	..	..	..	2,593,233
1	Kellyville Coal Co., 3.....	Danville.....	6	212	7.0	Sh.	St.	P.-R.	C-M.	Hd..	448,354
2	Kellyville Coal Co., 2.....	.. do	6	210	7.0	..	..	..	E-M.	..	406,248
3	Westville Coal Co., 1.....	Westville.....	6	210	7.0	..	..	..	..	..	346,194
4	Kellyville Coal Co., Himrod.....	Danville.....	6	170	8.0	..	..	..	M....	H-M.	344,769
5	Kellyville Coal Co., Pawnee.....	.. do	6	90	8.0	..	..	..	C....	Hd..	306,622
6	The Jones & Adams Co., 2.....	Catlin.....	6	168	6.0	..	..	..	E....	..	156,363
7	Kellyville Coal Co., 4.....	Danville.....	6	90	7.0	..	..	..	M....	..	155,265

Table 71—Continued.

VERMILION COUNTY—Concluded.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.										Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.			
8	Brookside Coal M. Co., 2.....	Danville.....	6	40	7.0	Sl..	St.	P.-R.	C-M.	Hd..	131,861		
9	Economy C. & M. Co., Econ	.. do	7	85	6.0	Sh.	St.		C....		104,000		
10	Consolidated Coal Co., Fairmount	.. do	7	208	5.0	"	"	"	M...	"	80,455		
11	Consolidated Coal Co., Missionfield	.. do	7	....	6.0	Stp	"	Stp..	"	M...	75,918		
12	John O'Connell Coal Co., Blue Bird	.. do	6	40	6.6	Sh.	"	P.-R.	"	Hd..	65,296		
13	Kellyville Coal Co., 5.....	.. do	6	60	7.0	"	"	"	"	"	53,176		
14	Manck Bros., 1.....	Danville R. 1	7	60	6.0	Sl.	"	"	"	"	31,386		
15	E. S. Gray, 3.....	Danville.....	7	100	6.0	Sh.	"	"	"	"	30,000		
16	Muncie Coal Co., 1.....	Muncie.....	7	200	5.6	"	"	"	"	"	18,960		
17	S. Parle, 1 and 2.....	Danville.....	7	60	6.0	"	Ho.	"	"	"	12,000		
18	Bunting Bros., 1.....	Grape Creek..	6	20	7.0	"	"	"	"	"	10,354		
19	D. A. Jenkins, Riverside	Danville.....	7	40	6.0	Sl.	"	"	"	"	9,094		
20	Danville Brick & Tile Co..	.. do	7	....	5.6	Stp	"	Stp..	"	Hd..	7,000		
21	Stanbury & Watkins, 1.....	.. do	7	80	6.0	Sh.	"	P.-R.	M....	"	7,000		
22	Oakwood Coal Co., 1.....	Oakwood.....	7	80	6.0	"	"	"	"	"	6,103		
23	William Schafer, 1.....	Vermilion.....	7	65	6.0	Sl.	"	"	"	"	6,050		
24	Jacob Thompson, 1.....	Grape Creek..	6	60	7.0	Dr.	"	"	"	"	6,004		
25	Henry Dettman, 1.....	Mine Valley..	7	50	6.0	Sl.	"	"	"	"	5,000		
26	France Bros., 1.....	Fairmount.....	7	50	6.0	Sh.	"	"	"	"	5,000		
27	Carter Bros., 1.....	Danville R. 8	7	50	6.0	"	"	"	"	"	5,000		
28	Star Coal Co., 1.....	Vandercook..	7	60	6.0	Dr.	St.	"	"	"	4,500		
29	S. M. Hodge & Son, 1.....	Danville.....	7	80	6.0	Sh.	Ho.	"	"	"	4,015		
30	A. Jones & Sons, 1.....	Catlin.....	7	51	5.6	"	"	"	"	"	3,787		
31	Joe Mack, 1.....	Danville R. R.	7	50	6.0	Dr.	St.	"	"	"	3,514		
32	Miller & Spangler, 1.....	Danville.....	7	100	6.0	Sh.	"	"	"	"	3,183		
33	J. A. Hume, 1.....	.. do	7	60	6.0	"	"	"	"	"	3,050		
34	A. H. Bonnett, 1.....	Blount.....	7	100	6.0	"	"	"	"	"	3,000		
35	James Thomas, 1.....	S. Danville..	7	100	6.0	Dr.	Ho.	"	"	"	2,800		
36	M. C. Wilkinson, 1.....	Danville.....	7	50	6.0	"	"	"	"	"	2,700		
37	John R. Colburn, Klondike	Vandercook..	7	60	6.0	Sh.	"	"	"	"	2,609		
38	Hardy Harris & Sons, 4.....	Fairmount.....	7	60	5.0	"	"	"	"	"	2,500		
39	James Thompson, 1.....	Grape Creek..	7	60	7.0	"	"	"	"	"	2,450		
40	Wm. Stine, 1.....	Danville.....	7	60	6.0	"	"	"	"	"	1,700		
41	Morin & Mobaker, 1.....	.. do	7	80	6.6	Dr.	"	"	"	"	1,684		
42	David Lovall, 1.....	Humrick.....	7	....	6.0	Stp	....	Stp..	"	"	1,600		
43	Joe Bales, 1.....	Danville.....	7	80	6.0	Sh.	Ho.	P.-R.	M....	"	1,525		
44	Wm. Winhaur, 1.....	.. do	6	60	6.0	"	"	"	"	"	1,500		
45	L. S. Miller, 1.....	Danville R. R. 8	6	10	6.0	Dr.	Hd	"	Hd..	"	1,500		
46	Kistler & Bookman, 1.....	Danville R. R.	7	60	6.0	Sh.	Ho.	"	M....	"	1,205		
47	Haskins & Sons, 1.....	Grape Creek..	6	40	6.0	"	"	"	"	"	1,200		
48	John Hall, 1.....	.. do	6	50	7.0	Dr	"	"	"	"	1,060		
49	Rain & Bryan Bros., 1.....	.. do	6	50	7.0	"	"	"	"	"	1,060		
50	J. A. Jones, 1.....	Humrick.....	7	....	6.0	Stp	"	Stp..	"	"	1,019		
51	L. E. Baker, 1.....	Oakwood.....	6	60	6.0	Sh.	"	P.-R.	"	"	1,000		
52	John Leitard, 1.....	Grape Creek..	6	60	7.0	Dr.	"	"	"	"	900		
53	F. L. Braunaman, 1.....	Danville.....	7	60	6.0	"	"	"	"	"	800		
54	Evan J. Jones, 1.....	Catlin.....	7	50	6.0	Sh.	"	"	"	"	775		
55	A. Frederickson, 1.....	Danville.....	7	50	6.0	"	"	"	"	"	743		
56	Blue & Henry, 1.....	Grape Creek..	6	60	7.0	Dr.	"	"	Hd..	"	675		
57	Llewellyn & Co., 1.....	Danville R. 8	7	70	6.0	Sh.	"	"	M....	"	600		
58	John Swanson, 1.....	.. do	7	85	6.0	"	"	"	"	"	587		
59	John Woodard, 1.....	Oakwood.....	7	60	5.6	"	"	"	"	"	400		
60	S. E. Bryant, 1.....	Grape Creek..	6	50	7.0	"	"	"	"	"	175		

Table 71—Continued.

WABASH COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Holisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	Hand or machine mine.	
	3 mines.....										4,800
1	Couch, Adams & Co.....	Mt. Carmel...	15	35	3.0	Sh.	Ho.	P.-R.	M...	Hd..	2,600
2	A. G. Keen.....	do	15	30	3.0						1,200
3	William Batson	Keensburg...	14	45	3.9						1,000

WARREN COUNTY.

	19 mines.....										13,986
1	H. J. Rohr	Alexis	1	40	4.0	Sh.	St.	P.-R.	Hd..	Hd..	3,986
2	Gilmore & McKahn	do	1	57	4.0						2,040
3	John Simcock	do	1	60	4.0		Ho.				1,200
4	J. C. Lewis.....	Roseville	2	30	2.6						1,200
5	W. W. Gilroy	Monmouth	1	70	2.6						940
6	Murphy & Redmond	do	2	48	2.0						640
7	John Selkirk.....	do	2	69	2.0						500
8	Willis Clayton.....	Avon.....	10	1.8	1.8	Sl.	Hd.				480
9	Thomas Caldwell.....	do	12	1.8	1.8						440
10	Thomas Wearmouth	Youngstown	2	10	1.8						400
11	Chas. Miller	do	2	1.8	1.8	Dr.					360
12	Thomas Smith.....	Avon.....	2	1.8	1.8						320
13	Thos. Lee	Youngstown	2	1.8	1.8						300
14	Henry Fullerton.....	Avon.....	2	1.8	1.8						280
15	J. G. Kidd.....	Roseville	2	1.8	1.8						280
16	Andrew Welch	Monmouth	2	1.8	1.8						240
17	Thos. E. Delaney.....	Avon.....	2	1.8	1.8						192
18	Amos Singleton.....	do	2	15	1.8	Sl.	Ho.				148
19	Joseph Simpson.....	Swan Creek..	2	1.8	1.8	Dr.	Hd.				40

WASHINGTON COUNTY.

	3 mines.....										57,956
1	Adam Kuhn, 1	DuBois	6	296	5.6	Sh.	St.	P.-R.	M...	Hd..	39,000
2	Hugh Murry, 1.....	Nashville.....	6	425	5.6						17,356
3	Okawville Coal Co	Okawville.....	6	350	5.6						1,600

WOODFORD COUNTY.

1	Roanoke Coal Mining Co., 1	Roanoke	2	480	2.6	Sh.	St.	L.W.	M...	Hd..	119,679
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Table 71—Concluded.

WILL COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.							Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft, slope or drift.	Hoisting—steam, horse or hand.	Long-wall or pillar and room.	Haulage—hand, mule, cable or electric.	
	2 mines.....									35,616
1	Murphy, Keenan & Co., 2..	Braidwood....	2	63	2.8	Sh.	St..	L.W.	M..	33,116
2	O. Conner & Co., 2.....	do	2	3	3.0	..	...		Hd..	2,500

WILLIAMSON COUNTY.

31 mines.....											2,711,767
1	Big Muddy Coal & I. Co., 7	Herrin.....	7	140	9.0	Sh.	St..	P.-R.	E....	Hd..	440,298
2	Chi. & Cartersville C. Co., 1.	do	7	180	9.0	..	..	..	M....	H-M.	277,898
3	Sunny Side Coal Co., 1.....	do	7	145	9.0	..	..	..	..	Hd..	256,304
4	St. L. & Big Muddy C. Co.,	Dewmain.....	7	90	9.0	..	..	..	E....	..	213,040
5	So. Ill. Coal M. & W. Co., 2.	Marion.....	7	80	9.0	..	..	..	M....	H-M.	189,511
6	So. Ill. Coal M. & W. Co., 3.	do	7	102	9.0	..	..	..	..	..	186,603
7	New Virginia Coal Co., 1....	Lake Creek...	7	119	8.0	..	..	..	..	Hd..	175,050
8	Cartersville Coal Co., Burr.	Cartersville...	7	60	9.0	..	..	..	..	..	131,057
9	C. & Big M. Coal & C. Co., 1	Marion.....	7	81	9.0	..	..	..	..	..	127,693
10	Williamson County C. Co., 1	Lake Creek...	7	150	9.0	..	..	..	..	H-M.	113,325
11	New Ohio Wash. Coal Co., 1	Cartersville...	7	65	9.0	..	..	..	..	Hd..	107,683
12	New Ohio Wash. Coal Co., 2	do	7	70	9.0	..	..	..	..	..	87,104
13	Chicago & Herrin C Co., 1..	Herrin.....	7	161	9.0	..	..	..	..	..	71,144
14	Robert Dick Coal Co., 1....	Cartersville...	7	81	9.0	..	..	..	..	..	61,236
15	So. Ill. Coal M. & W. Co., 4.	Marion.....	7	22	8.6	Sl..	..	..	..	H-M.	59,860
16	Cartersville Coal Co., 2.....	Cartersville...	7	90	9.0	Sh.	..	..	..	Hd..	55,600
17	J. C. & B. M. Coal M. Co., 1	Lake Creek...	7	208	9.0	..	..	..	..	H-M.	48,353
18	Marion Coal Co., 1.....	Marion.....	7	49	9.0	..	..	..	..	Hd..	48,000
19	Cartersville Dist Coal Co., 1	do	7	94	8.0	..	..	..	..	M....	28,725
20	Donely & Koenecke C. Co., 1	Cartersville...	7	110	9.0	..	..	..	..	Hd..	8,259
21	John A. Young.....	do	6	40	7.0	..	..	..	..	..	4,873
22	Cartersville & Big M. C. Co., 1	do	7	80	9.0	..	..	..	..	..	3,250
23	Richard Hampton, 1.....	do	7	30	9.0	..	..	..	..	..	2,443
24	John Reed.....	Herrin.....	7	40	9.0	..	..	..	..	..	2,000
25	W. P. Allen.....	Marion.....	7	10	9.0	St..	Ho.	..	..	..	1,800
26	Ensminger & Rentfro.....	Crab Orchard	6	25	5.6	Dr.	..	..	..	..	1,258
27	T. M. Moatsinger.....	do	6	22	5.6	..	..	..	..	..	400
28	Willford & Downs.....	do	6	20	5.6	..	..	..	..	..	300
29	Chas. Dunsford.....	do	6	20	5.6	..	..	..	..	..	300
30	J. Prichett.....	Hudgens.....	2	30	2.8	..	..	..	..	..	200
31	W. S. Tarpley.....	Crab Orchard	6	22	5.6	..	..	..	..	..	200

The foregoing showing is summarized by the geological seams, giving the number of mines and the total tonnage produced from each seam.

TABLE 72—*Summary of the Physical Character of the Coal Mines of the State, Geological Number of Seam, Manner of Working, Kind of Openings and Tons Produced.*

Geological number of seam.	Number of counties	Number of mines.	MANNER OF WORKING			CHARACTER OF OPENINGS.				Tons.
			Long Wall.	Pillar and Room.	Strip.	Shaft.	Slope.	Drift.	Strip.	
1	15	90	1	89	.....	46	12	32	.....	955,434
2	20	170	36	133	1	67	38	64	1	5,871,554
3	2	9	.....	9	.....	5	.....	4	.....	15,084
4	2	3	.....	3	.....	2	.....	1	.....	12,558
5	23	240	5	235	.....	161	35	44	.....	11,832,976
6	20	290	.....	290	.....	221	24	45	.....	11,669,586
7	10	111	.....	106	5	76	11	19	5	4,573,625
14	1	1	.....	1	.....	1	.....	.....	.....	1,000
15	1	2	.....	2	.....	2	.....	.....	.....	3,800
16	1	7	.....	7	.....	6	.....	1	.....	12,407
Pocket....	3	10	.....	8	2	6	2	.....	2	7,376
Totals.....	.....	933	42	893	8	593	122	210	8	34,955,400

VALUE OF MINING PLANTS AND ACRES OF LAND OWNED OR LEASED.

In collecting the statistics of coal mines for this year, the schedules sent to operators included the following—Value of plant; total value of buildings; total value of machinery, including wagons, carts, tools of all kinds, live stock, etc.; total value of shaft, including sinking, curbing, timbering, roadways, cars, haulage and all equipments under of ground; number of acres of ground owned; number of acres of ground leased for coal rights.

The majority of the operators failed to fill out the schedules, so that it was impossible to tabulate the results of the inquiry in a satisfactory manner. The returns made, however, have been condensed

more than was intended and are presented by districts, in the following table:

TABLE 73—*Plant Values, with Acres of Ground Owned and Leased.*

District.	MINES AND VALUE OF BUILDINGS, MACHINERY AND SHAFTS.						ACRES OF GROUND.			
	Mines.	Buildings.	Mines.	Machinery	Mines.	Shaft.	Mines.	Owned	Mines.	Leased coal right and royalty.
First	27	\$ 57,670	27	\$214,212	30	\$391,721	17	6,974	21	5,039
Second.....	47	90,098	45	122,365	47	239,501	21	2,435	33	20,846
Third.....	134	159,943	131	219,930	134	507,440	55	4,788	44	11,281
Fourth.....	30	62,107	20	72,875	31	361,775	35	1,178	23	9,724
Fifth.....	19	178,100	19	299,800	19	733,000	24	1,095	23	18,319
Sixth.....	48	143,393	46	268,785	51	577,870	30	2,089	50	11,634
Seventh.....	44	199,440	50	279,395	52	512,855	31	8,200	33	9,718
The State....	349	\$920,751	338	\$1,477,362	364	\$3,324,162	213	26,759	227	86,561

In this presentation it is to be understood that all the operators giving the value of buildings, did not give the value of machinery, nor of the shaft; the same is true of the operators giving the value of machinery or of the shaft, and omitting the value of the buildings; some, however, reported the value of the entire plant, and also gave the acres of ground owned or leased. Therefore in reading the table each statement is to be considered separately.

It will be seen in the last line of the table that 349 operators reported the value of their buildings, which aggregates \$920,751; that 338 operators gave the value of machinery at their mines, aggregating a value of \$1,477,362; and 364 returned the value of their shafts at a total of \$3,324,162; also that 213 operators reported owning 26,759 acres of land, and 227 operators having leases of coal rights on 86,561 acres of land.

UNDERGROUND HAULAGE.

Modern civilization depends upon the facility with which the products of labor can be distributed. Countries lacking advanced means of transportation, are now, and must continue to remain, in a backward condition. It is a source of some gratification to know that the coal industry not only supplies the power necessary to every form of mechanical transportation, but that its earliest developers were the first to devise methods for conveying the product to near by markets.

During the latter part of the 17th century the mine owners of Durham and Northumberland, England, built coal roads to points of shipment on the Tyne and Wear. These consisted of two parallel lines of wooden beams or trams fixed to the ground and furnished with flanges to prevent the cars from derailing. This is the first recorded attempt at surface transportation. About the year 1700 cast-iron rails fastened to cross ties were substituted for the wooden beams, and later the flanged wheel was substituted for the flanged rail, and the linking together of two or more cars, left to be solved only the problem of a more rapid or powerful means of locomotion.

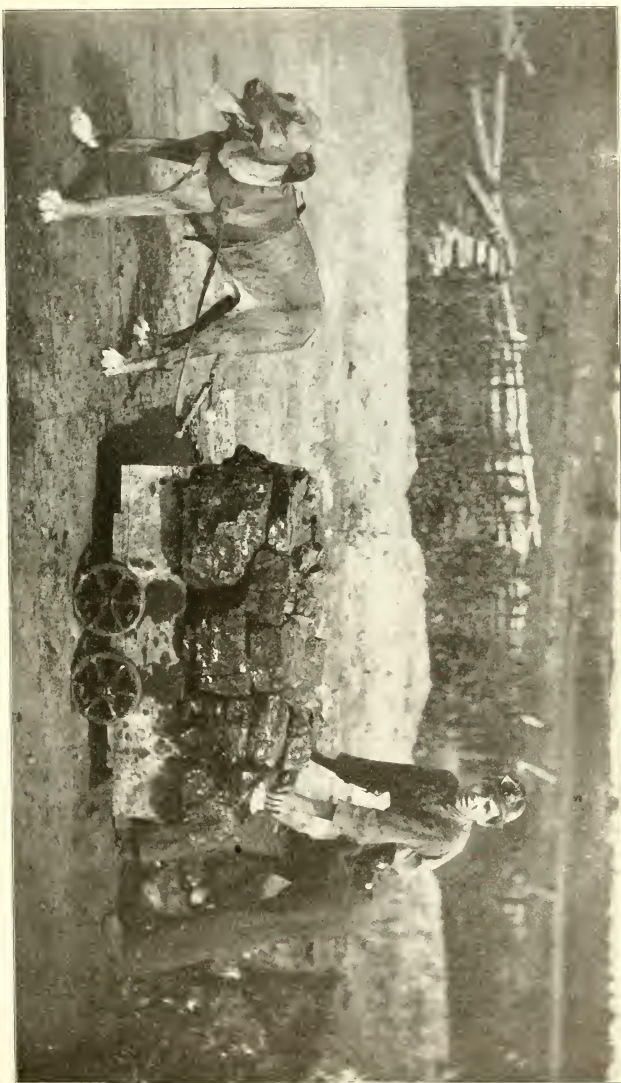
Richard Trevethick secured in 1802 a patent for a steam locomotive, to be used in the haulage of coal, that performed the work for which it was designed. The invention was not generally used, because of a mistaken idea entertained by the engineers of that day that the steam locomotive could not acquire speed or draw a heavy load unless provided with cogged wheels working on a corresponding rack along the rails. It remained for Mr. Blachett, a coal proprietor, to expose the errors of the engineers, and to demonstrate in the year 1811, that a locomotive with smooth wheels running on smooth rails could draw heavy loads even up modern inclines. The only remaining obstacles were the power and means of speed. These were later met and overcome through the inventions of Stephenson and others.

From the efforts of the early English mine owners thus came the suggestion, which applied to the wider wants of present life, has given us the wonderful railroad system of our time.

The purpose, however, of this statement is to show that a similar evolution has taken place in the matter of underground transportation. For over 100 years after the completion of the surface experiments referred to here, it was the universal practice in the mines of Great Britain to harness men and women, much after the manner of animals to-day, to draw wagons or other receptacles used for the transportation of coal. The following illustrations furnish a clear idea of the progress that has been made in methods of underground transportation. They fully describe every phase from the human harnessed to a "slipe" containing a few hundred pounds, to the modern electric motor, capable of hauling 50,000 tons.



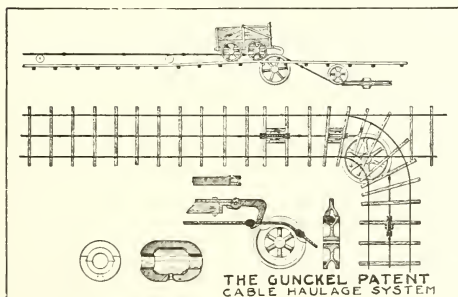
In some parts of Europe, as recently as the 18th century, men and women were employed in underground haulage in coal mines, as shown in the above illustration.

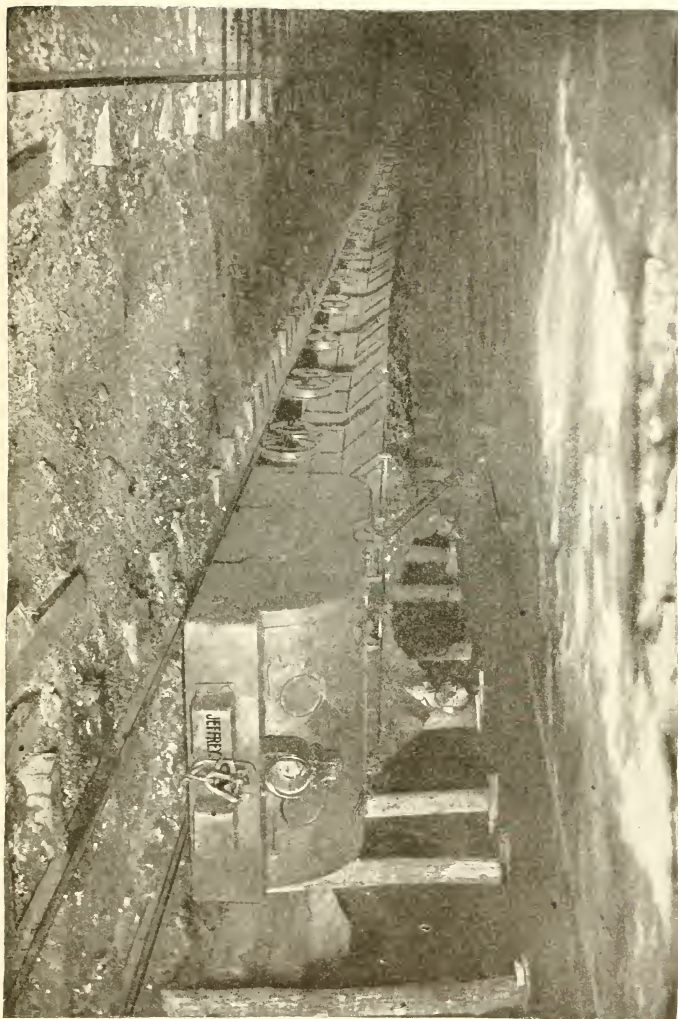


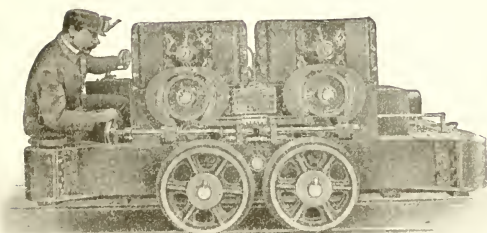
The above is from a photograph furnished by James Taylor, State Inspector of mines for the Third district. In the text of his report will be found a full description of the haulage of coal in mines, by dogs, in McDonough county.



THE OLD INDISPENSABLE.







GOODMAN MOTOR.



HECTOR McALLISTER—Inspector, First District.

The subject of this sketch was born in Whitehaven, Cumberland county, England, in 1864, and is now 58 years old.

He entered the coal mines at the age of eight years, at Blayden, county Durham, England. In 1864 he came to the United States working as a miner in Schuylkill county, Pennsylvania, for one year. In 1865 he moved to Illinois, and worked in the mines near Belleville until 1869, when he accepted a position at Streator, where he worked until 1897. Ten years of this time he was mine manager of the Chicago, Wilmington & Vermillion Coal company.

He was appointed State inspector of mines for the first district of Illinois in 1897 by Gov. John R. Tanner, which position he holds at the present time.



THOMAS HUDSON—Inspector, Second District.

The original of the above picture was born in the county of Northumberland, England, in 1846, and is now 58 years of age. He attended the schools in the mining districts of Northumbria until he was 13 years of age, when he commenced work in the collieries of the Bedlington coal company, going through the regular courses from trapper boy to miner.

He came to the United States in 1871, locating in Henry, Marshall county, Illinois. After working two years in the coal mines at Galva, and operating a local mine at Henry, he moved to Streator, LaSalle county, where in 1873 he engaged with the Vermillion coal company as a miner, and remained in the employ of that company for ten years. In 1883 the General Assembly passed an act creating the office of State inspectors of coal mines in Illinois, dividing the State into five districts, also providing for the examination of candidates for inspectors by a board of examiners. For some time previous to the passage of this act, Mr. Hudson had been a close student of mining literature, hence, he was fairly well versed in the technical as well as the practical knowledge of coal mining. At the first examination held by the board he successfully passed the examination, and was at once appointed by Gov. John L. Hamilton, as State inspector of coal mines for the second district. He at once transferred his residence from Streator to Galva, the latter being more centrally located in the district. Since 1883 he has been reappointed and commissioned by every Republican Governor, and now holds a commissin under Governor Yates.



JAMES TAYLOR—Inspector, Third District.

This inspector was born in Heywood, Lancashire, England, in 1853, and is now 51 years of age.

In 1873 he came with his parents to the United States, locating at Elmwood, Peoria county, Illinois. Here he obtained work in the coal mines in that locality. In 1876 he moved to Kansas, but returned to Illinois in 1880 and began work in the mines at Edwards as a miner. In 1882 he was appointed to the position of county mine inspector of Peoria county. While occupying this position, he was selected as mine manager for one of the mines at Edwards, where he remained for five years. In 1887 he was appointed State inspector of mines for the third district by Governor Oglesby, and reappointed to the same position by Governor Fifer. In 1890 he resigned as State inspector, to engage in the coal mining business at Edwards. In 1898 he was appointed a member of the State mining board, serving until 1901, when he was again appointed State inspector of the third district by Governor Yates, and by him reappointed in 1903, and is now serving in that position.



THOMAS WEEKS—Inspector, Fourth District.

Inspector Weeks was born at Kates Hill, Worcestershire county, England, in 1850, and is now 54 years of age.

In 1861 his father and family emigrated to the United States, settling in Kewanee, Illinois. He attended school in England until he was ten years of age. At the age of 14 years he began working in the coal mines, and he has worked there continuously ever since, occupying the various positions from miner to mine manager. In 1895 he engaged with the Colfax coal and mining company, at Colfax, as mine manager, where he remained until 1901, when he was appointed by Governor Richard Yates as State inspector for the fourth district, and now holds that position.



WALTON RUTLEDGE—Inspector, Fifth District.

The original of the above picture was born at Haswell, county of Durham, England, in 1835.

At the age of 14 years he began working in the coal mines at that place. After about a year he was transferred to the surveying division, working with the mine examiners a part of the time. In 1854 he came to the United States, locating in the anthracite coal region, where he worked as a miner for two years. He came to Illinois in 1856, and settled in Alton, which has been his home ever since. Here he worked in the mines until May, 1864, when he enlisted in company D, 133rd regiment, Illinois infantry as first sergeant. Afterwards, in the same year, he raised a company which was mustered into the 144th regiment, and served as first lieutenant to the close of the war of the rebellion. After the close of the war he again went to work in the coal mines near Alton. At the same time he was chosen as secretary of the Miners' Benevolent organization, embracing the states of Illinois, Indiana and Missouri, serving the organization for two years. During the session of the constitutional convention of 1870, he was active in securing a clause in the constitution providing for a police regulation for the coal mines of the State. In after years he was a member of a committee of miners to formulate a mining law for the State. After several attempts to secure such legislation he, with others, was finally successful in securing the passage of a mining law at the session of the general assembly of 1879, but which provided for county inspectors only. In 1883, after the passage of the law creating State inspectors of coal mines, he passed in the first examination for inspectors and was appointed inspector for the fourth district. He was reappointed successively each term and held the position until 1894. In 1897 he was again appointed inspector, and is now serving in that capacity.



JOHN DUNLOP—Inspector, Sixth District.

The above picture is a likeness of John Dunlop, who was born at Amuck Lodge, Parish of Irvine, Ayrshire, Scotland in 1864. He attended the public schools at that place for seven years, and when 12 years of age he commenced work in the coal mines, following in the various positions from drawer to more advanced occupations. During the years up to the time he was 22 years of age, he attended night schools, taking up the courses as advanced by the government in the science and art department, which included mining engineering, thereby receiving a technical as well as a practical knowledge of coal mining, for which he secured four diplomas in the different branches studied. At the age of 22 years he came to the United States, locating in Indiana, where he remained for a few years, after which he removed to Illinois. In 1892 he successfully passed the examination before the State mining board as mine manager, and engaged in that capacity with a large operator in Marion county, remaining at the same place for five years. In 1897 he took the examination for State inspector of mines, and was appointed to that position for the sixth district by Governor John R. Tanner, and was reappointed by Governor Richard Yates. He now resides with his family in Centralia.



EVAN D. JOHN—Inspector, Seventh District.

Evan D. John was born in Measteg, Glanmorgan Shire, South Wales, in 1861. Like most of his countrymen in those days, he was deprived of an early education. At the age of eight years he began working in the mines at that place as a trapper boy, and continued working in the coal mines of his native land until 1880, when he came to this country. His first work here was in a shaft at Murphysboro, Illinois. Since then he has worked in the coal mines of Ohio, Iowa, Pennsylvania, New Mexico and Indian Territory.

In 1886 he held his first position as mine manager at Centerville, Iowa. In 1888 he came to Springfield, Illinois, and took charge of the mining machines at the mine located at Spaulding. Shortly afterwards he accepted the position of mine manager, and later, superintendent at the same mine, continuing until 1892, when he accepted a similar position at the mine at Barclay, remaining at this mine until 1897, when Gov. John R. Tanner appointed him State inspector for the seventh district, which position he has held ever since. His residence since his appointment as inspector has been at Carbondale.

ANNUAL REPORTS

OF THE SEVERAL

STATE INSPECTORS OF COAL MINES

FIRST INSPECTION DISTRICT—1903.

TWENTIETH ANNUAL REPORT.

Counties—Grundy, Kankakee, LaSalle, Livingston, Will.

HECTOR McALLISTER, Inspector, Streator.

HON. DAVID ROSS, *Secretary*.

State Bureau of Labor Statistics, Springfield, Ill.

SIR—In compliance with section 12 of an act of the General Assembly of the State of Illinois, defining the duties of the State inspectors of coal mines, and providing for the health and safety of persons employed therein, I herewith submit the 20th annual report of coal mines in the first inspection district for the year ended June 30, 1903.

The district comprises the coal producing counties of Grundy, Kankakee, LaSalle, Livingston and Will. The report comprehends tabulated statements, giving the number of mines in operation, both shipping and local; the depth of the coal below the surface; the thickness of the different seams, and their geological number; the number of new mines opened, also the number abandoned during the year; the total number of persons employed at each mine; the number of tons of mine run, and the different grades of coal produced; the different prices per ton paid for mining; the value per ton of mine run and other grades of coal at the mine, with the aggregate value of the total product; the number of kegs of powder consumed for blasting coal and for other purposes; the number of casualties, both fatal and non-fatal, that have occurred in and around the mines; also the number of wives made widows, and the number of children left fatherless, caused by the fatal accidents; also the number of days of active operation of all the mines in the district.

The following summary gives the most important facts of the district for the year:

Total number of mines.....	74
Number of shipping mines.....	34
Number of local mines.....	40
Number of new mines.....	8
Number of abandoned mines.....	11
Number of miners.....	5,766
Number of other employes.....	1,758
Number of boys under ground.....	193
Total number of employes.....	7,717

Number of fatal accidents.....	24
Number of non-fatal accidents.....	73
Number of wives made widows.....	14
Number of children left fatherless.....	49
Total tons of coal produced, all mines.....	3,748,651
Tons of mine run.....	517,697
Tons of lump.....	2,116,106
Tons of egg.....	167,725
Tons of nut.....	123,647
Tons of pea or screenings.....	730,940
Tons of slack or waste.....	92,536
Average value per ton of lump at shipping mines.....	\$1.57
Average value per ton of mine run at shipping mines.....	\$1.56
Average value per ton of egg at shipping mines.....	\$1.60
Average value per ton of nut at shipping mines.....	\$1.32
Average value per ton of screenings at shipping mines.....	\$0.67
Average value per ton of slack at shipping mines.....	\$0.25
Aggregate value of total product, all mines.....	\$5,017,666
Average price paid per gross ton for hand mining, shipping mines.....	\$0.74
Average number of days of active operation, shipping mines.....	251
Number mines operated by hand mining.....	74
Number of kegs of powder used for blasting coal.....	46,952
Number of kegs of powder used for other purposes.....	1,972
Number of steam boilers in use at mines, horizontal.....	123
Number of tons of coal shipped.....	3,092,974
Number of tons supplied to locomotives at the mines.....	120,143
Number of tons sold to the local trade.....	254,319
Number of tons consumed at the plant.....	281,215
Tons of coal mined to each fatal accident.....	156,194
Tons of coal mined to each non-fatal accident.....	76,503
Number of employes to each fatal accident.....	322
Number of employes to each non-fatal accident.....	106

The following Statement gives the Coal Production, by Counties, in the First District, with the Increase or Decrease in each, for the Years ended June 30, 1902 and 1903,

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL IN TONS.		Increase.	Decrease.
	1902	1903		
Grundy.....	1,383,336	1,457,935	74,599	.....
Kankakee.....	51,901	59,195	6,294	.....
LaSalle.....	1,894,510	1,877,555	.....	16,955
Livingston.....	348,291	319,350	.....	28,941
Will.....	51,686	35,616	.....	16,070
Total.....	3,729,724	3,748,651	80,893	61,966
Net increase.....	.....	.....	18,927	.....

The counties of Grundy and Kankakee show an increase of 80,893 tons while the counties of LaSalle, Livingston and Will show a decrease of 61,966 tons, leaving a net increase of 18,927 tons for the district over the output of 1902 and an increase of 180,453 tons over that of 1901.

NEW MINES.

William Mertz, John Taylor, James Edson and Ringert and Hoehstetter have opened new mines south of Ottawa in LaSalle county.

Oscar Kimes has opened a new mine southwest of Streator, LaSalle county.

The North Wilmington Coal Co. has opened a new mine at Seneca, LaSalle county.

George Blair has opened a new mine near Morris, Grundy county.
John Westerlund has opened a new mine one mile south of Streator, Livingston county.

ABANDONED MINES.

John Westerlund and J. E. Buchanan have abandoned their mines southeast of Streator, LaSalle county.

The Standard Coal Co., Seneca, has abandoned its mine, LaSalle county.

John Marshall has abandoned his mine near Leanore, LaSalle county.

Samuel Myers has abandoned his mine north of Kangley, LaSalle county.

F. M. Fishburn has abandoned his mine south of Ottawa, LaSalle county.

John Telfer, Corcoran Bros., Mitchell Bros., and Nelson Bros. have abandoned their mines near Morris, Grundy county.

The C. W. & V. Coal Co., of Streator, has abandoned the upper seam in its No. 1 mine at Heenanville; this seam is known as No. 7 of the geological section. The company is now opening out No. 2 seam of the geological section. This seam is being developed on the long-wall system and the conditions are favorable for a first-class mine.

CHANGES OF OWNERSHIP.

Taylor and Cavanaugh have purchased the mines at Carbon Hill, Grundy county, formerly operated by the Star Coal Co.

Mitchell Bros. have purchased the mine formerly operated by James Heather, near Morris, Grundy county.

Beggs, Davis & Co. have leased the mine formerly operated by Walton Bros. at Fairbury, Livingston county.

IMPROVEMENTS.

Mrs. Emerson Hakes, Rutland, LaSalle county, has taken the cage out of the air shaft at her mine and in its place erected a substantial stairway.

The LaSalle County Carbon Coal Co., at its union mine, LaSalle, and James Cahill, Peru, have taken out the old ladders, formerly in these mines, and replaced them with well constructed stairways.

PROSPECTIVE MINES.

The C. W. & V. Coal Co., Streator, is sinking a new shaft to No. 2 seam near its No. 2 mine, Streator, LaSalle county.

The Wilmington Star Mining Co. is sinking a new shaft one mile west of its No. 6 mine, near Coal City, Grundy county.

The Braceville Coal Co. is sinking a new shaft half a mile west of its No. 5 mine, Braceville, Grundy county.

The Big Four Coal Co. is sinking a new shaft one mile northwest of its No. 2 mine, Coal City, Grundy county.

The Rixon Coal Co. of Chicago, is sinking a new shaft one mile east of Braceville, in Will county.

The Joliet-Wilmington Coal Co. is sinking a new shaft near Braidwood, Will county.

The Johnson Coöperative Coal Co. is sinking a new shaft two miles west of Fairbury on the Toledo, Peoria & Western railroad, in Livingston county.

The Diamond Coöperative Coal Co., Pontiac, Livingston county, is sinking a new shaft a quarter of a mile west of the city, on the Illinois Central railroad.

The Manhattan Coal Co. of Chicago, is sinking a new shaft one mile west of Cornell, Livingston county.

The Star Coal Co. is sinking a new air shaft at the face of the workings at its No. 2 mine, Kangley, LaSalle county.

The Cardiff Coal Co., Cardiff, Livingston county, has opened out a new mine about a half a mile west of the one destroyed by an explosion of gas as reported elsewhere. The hoisting and escapement shafts are each $8\frac{1}{2}$ by $17\frac{1}{2}$ feet in the clear; both contain three compartments; two of the compartments of the escape shaft are for air, and the other for the escapement of men by a cage in the shaft in place of a stairway. The third compartment in the main shaft contains stairways as an additional means of escape. The depth of the hoisting shaft from the surface is 224 feet. The hoisting engines were built by Crawford and McCrimmon; they are first motion, each cylinder is 24x36 inches, with a 6-foot drum. There are four boilers, two are water tube 175 horse power each; the other two are tubular, 150 horse power each. Both the main and escape shaft engines are set in brick buildings, all other buildings of the plant are covered with galvanized corrugated iron, making them as near fire proof as possible. The tower will be 70 feet high, built of structural steel. The Humble detaching hook will be used on the cages and in addition thereto, there will be a device for preventing overwinding, attached to the hoisting engine. The general design for the tower and dump structure were made by George S. Rice, general superintendent of the company, and is being built by the Wisconsin Bridge Co. The fan is 7x14 feet, high speed, with steel plate blades, and casing, no wood whatever being used in its construction. The shaking screens are double throughout. An Otumwa box-carloader will be placed for the outer dump track, The cages will be double decked, steel rail guides will be used in the main shaft. Everything in the construction of this plant is for the handling of a large output.

FOUR EXPLOSIONS OF GAS AT THE MINE OF THE CARDIFF COAL CO., CARDIFF, LIVINGSTON COUNTY.

The first explosion in the Cardiff mine, which occurred March 13, 1903, whereby three persons lost their lives, was caused by gas igniting at a gob fire in the old workings down the south slope, which had been abandoned

over a year ago. This mine is situated on the Indiana, Illinois and Iowa, and the Wabash railroads, in the northeast corner of Livingston county, and is owned and operated by the Cardiff Coal company. The shaft is 240 feet deep to a 12 foot seam of coal; six feet lower there is a 3 foot seam. When the upper seam was worked out at this point, the south slope was commenced in the lower seam, and the rooms were driven at right angles to the rooms in the upper seam at the location of the gob fire in the lower seam. The strata between the two seams caved through, thus forming a chimney or draft for the fire. I received a message from Cardiff the morning of the day of the explosion to come at once, but owing to the time of trains leaving Streator, I did not arrive there until about 5 o'clock in the afternoon. Everything was right on top, the fan was running at the regular speed.

George S. Rice, general superintendent, and Benjamin Phillips, mine examiner, went with me down the shaft. We examined very carefully the section of the mine where the explosion occurred, but could not find any indication of fire damp. We therefore came to the conclusion that men could safely go down and repair the stoppings that had been destroyed by the force of the explosion, and thus restore ventilation in the mine.

There were 15 men in the mine when the explosion occurred, all at work building and repairing stoppings in the upper seam, intending thereby to smother the gob fire burning in the lower seam. Two of the men were working on the third southeast entry, two on the third northeast entry, two at the mouth of the south slope, and two at each of the rooms, one, two and three west of the south slope; two men were bailing water in the seventh and eighth southeast entry.

The two men working at the third southeast entry, James Hewitt and John McClusky, were instantly killed by being thrown against the entry rib by the force of the explosion. The two men at the third northeast entry were not injured; the men working at the south slope and in rooms one, two and three, together with the night boss, were all knocked down by the force of the explosion, but none of them injured, excepting the night boss, H. M. Dodge, whose shoulders were bruised. Two of the men working on the south slope went east, the other men went west, and reached the hoisting shaft, here they met the two men from the third northeast. There were four other men missing. All the men at the hoisting shaft went in search of the two men, who were working at the south slope. They were found laying about 50 feet east of the south slope, having been overcome by the after damp. James Barra, miner, was dead, and the miner with him was unconscious, but was soon revived after being taken to the fresh air.

By this time the night engineer had given a general alarm; Thomas Roberts, mine manager, soon had a rescuing party at the mine. The party descended the escapement shaft, (there had been a cage connected with this shaft;) they found ten men near the hoisting shaft and near the mule stable. It may be well to state here that at this time a part of the hoisting engine was broken, and had not been repaired. After the explosion the men were taken out of the mine, while others of the rescuing party made further search for the miss-

ing men. The bodies of Hewitt and McClusky were found at the third southeast, both were dead. They were conveyed to their homes. The rescuing party made further search for the two water bailers; when the party reached the fifth southeast they were forced to return, for the reason that the ventilation had been cut off. The men began at once erecting temporary stoppings between the intake and the return airways, and soon had the ventilation established. It was now about 9 a. m.; the two missing men, water bailers, came down the main east entry and went out at the escape shaft.

At the time of the explosion, midnight, these two water bailers were eating supper on the fifth east parting; a cloud of dust came to the parting, and they had to retreat to the eighth southeast entry, although the air was cut off from them. They were also cut off from the after damp; they made several attempts to go out during the night and about 9:00 o'clock, as stated, they succeeded in getting out; the mule they had been working was found dead on the parting. The next day, Saturday the 14th, in the afternoon, in company with Mr. Phillips, mine examiner, I made a thorough examination of the mine. We especially examined the south slope to the third southeast where the explosion took place, but could not find any indication of fire damp. At this time men were working in the mine, repairing stoppings so as to establish ventilation, and also to close up the old workings.

The second explosion occurred Sunday evening, March 15, about 5:20 o'clock. Six men were in the mine at the time, building and repairing stoppings.

W. H. Parker, superintendent, and Thomas Roberts, mine manager, with several others, volunteers, made preparations to go down the shaft; when about half way down the cage caught in the slides, owing to some broken timbers, caused by the force of the explosion. Considerable time was lost before the party reached the bottom of the shaft. William Humphreys was found alive at the bottom of the air shaft. He was taken home, and at once received medical attention. The rescuing party followed down the back entry to the south slope, where the men had been working. They found the dead bodies of Anton Hassell and Anton Jeokoski; further search was made for the other three men, but they could not be found. The party was forced to abandon the search at this time on account of the bad condition of the air.

It was now getting towards morning, and the rescuers concluded to wait for my arrival at Cardiff. I arrived at the mine about 9:30 o'clock Monday, the 16th, just at the time when the third explosion was taking place. This was decidedly the most violent explosion that had occurred; the force of the explosion blew down the pulley wheels, and knocked down part of the tower at the air shaft, and also forced through the end of the engine house. A. M. Michaels, head carpenter, was struck on the breast with a piece of flying timber, injuring him seriously; he died about noon the same day.

I concluded at once that it would be very foolish and inconsiderate, that other lives should be sacrificed, as the explosions seemed to be occurring at frequent intervals. Under these conditions, it was apparent that further effort to secure the bodies of the three men—James Hutchinson, William

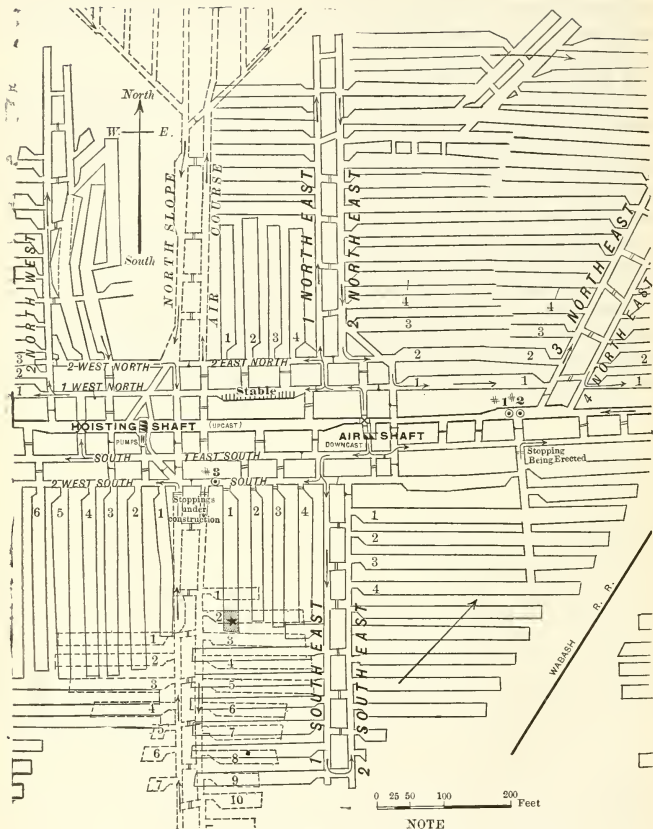
Alderson and A. Wilson—whom the rescuers had failed to find, was hopeless, and would evidently result in further loss of life. I ordered the shaft to be flooded with water. During the time occupied by the men digging the ditch, both hoisting and escapement shafts were covered over to stop the circulation of air and thereby smother the fire.

At 2:37 p. m. the same day, Monday, March 16, the fourth explosion occurred, the force of which blew the covering off of both shafts. The ditch having been completed at this time, the water was let into the air shaft.

The fifth and last explosion occurred about 7:30 p. m. the same day; about half an hour afterwards smoke was discovered coming out of the hoisting shaft. The shaft timbers had been set on fire, and all combustible material around the top works was burning.

The engine house was completely destroyed by fire, although it was covered with corrugated iron. The heat coming out of the shaft was intense, warping the steel tower, and rendering it a total wreck.

About 11:30 p. m., the shaft timbers having been consumed by the fire, the shaft caved in, letting in the surface around the top for a radius of about 20 feet, leaving the tower hanging at an angle of about 45 degrees. The shaft and all property was a total loss, and the mine has been abandoned.



NOTE

- Full lines — Upper Vein workings (Thick Vein)
 4 to 20 ft. of Sandstone & Shale separate Lower & Upper Veins
 Dashed lines — Lower Vein workings
 Arrows, — Direction of Air currents prior to Gob fire
 © 1, 2, & 3, Location of bodies, when found after first explosion
 of March 12 1903
 ★ Gob fire

PLAT-CARDIFF COAL COMPANY'S MINE, CARDIFF, LIVINGSTON COUNTY. (See text First District.)

FATAL ACCIDENTS.

July 9, 1902, Antonia Graceie, miner, aged 50 years, married, was killed at the face of his working place in No. 6 mine of the Wilmington Star Mining company, Coal City, Grundy county. Deceased leaves a widow and two children in Italy.

July 9, 1902, John Cherry, miner, aged 21 years, single, was killed by a premature blast in the Pontiac Coal company's mine, Pontiac, Livingston county.

Sept. 23, 1902, A. Brochine, miner, aged 40 years, single, was injured by a fall of coal at the face of his working place in the Oglesby Coal company's mine, Oglesby, LaSalle county. His injuries were considered slight at the time of the accident, as he walked from the face to the bottom of the shaft. However, he died the following day.

Oct. 6, 1902, Gregor Zora, miner, aged 45 years, married, was killed by a fall of rock in No. 4 mine of the Big Four Coal company, Carbon Hill, Grundy county. He leaves a widow and four children dependent.

Oct. 8, 1902, John Janks, miner, aged 52 years, married, was instantly killed by a fall of coal at the face of his working place in the LaSalle mine of the LaSalle County Carbon Coal company, LaSalle county. He leaves a widow and six children, four dependent.

Nov. 7, 1902, Isaac Gustive, miner, aged 16 years, single, was instantly killed by a fall of rock at the face of his working place, in No. 4 mine of the Wilmington Coal Mining and Manufacturing company, Diamond, Grundy county. He was working with his father when the accident occurred.

Nov. 27, 1902, John Kelcie, miner, aged 26 years, married, was killed by a fall of coal in the mine at Clark City, of the Gardner-Wilmington Coal company, Kankakee county. He leaves a widow and one child.

Dec. 9, 1902, Michael Vercemak, miner, aged 16 years, single, was instantly killed by a fall of coal at the face of his working place, in No. 2 mine of the C., W. & V. Coal company, Streator, LaSalle county. He was working with his father when the accident occurred.

Dec. 24, 1902, John Smith, miner, aged 35 years, single, was injured by a fall of rock at the face of his working place, in the Pontiac mine of the Pontiac Coal company, Livingston county. He was mining at the time, when a small piece of rock fell on him. He was taken to his home, where he died two days after receiving his injuries.

Jan. 23, 1903, Andrew Bovalar, miner, aged 38 years, married, was killed by a fall of rock at the face of his working place, in the C., W. & V. Coal company's mine at Heenanville, LaSalle county. He leaves a widow and four children.

Feb. 6, 1903, Joseph Samecek, miner, aged 56 years, married, was killed by a fall of rock at the face of his working place, in No. 6 mine of the Wilmington Star Mining company, Coal City, Grundy county. He leaves a widow.

Feb. 11, 1903, Fred Coleman, driver, aged 23 years, single, was fatally injured in No. 1 mine of the LaSalle Carbon Coal company, LaSalle county. He was walking in front of a loaded car when his foot caught in the frog, the car coming on top of him, breaking his back. He was taken to the hospital in LaSalle, where he died of his injuries April 15, two months after the accident occurred.

Feb. 24, 1903, Dominic Carmel, miner, aged 26 years, single, was killed by a fall of rock at his working face, in the Braceville Coal company's No. 5 mine, Grundy county.

March 7, 1903, James Baker, miner, aged 52 years, married, had his back broken by a fall of rock in the Oglesby mine of the Oglesby Coal company, LaSalle county. He was taking down coal when the rock fell on him. He died on April 3, nearly one month after receiving his injuries. He leaves a widow and two children.

March 13, 1903, an explosion of gas occurred in the mine of the Cardiff Coal company, Livingston county, which resulted in the death of three men—James Hewitt, driver, aged 23 years, single; John McClusky, miner, aged 23 years, married, leaves a widow and one child; and James Barra, miner, aged 41 years, married, leaves a widow and four children. Barra and McClusky were building a stopping at the third southeast, where the force of the explosion was the greatest. They were thrown against the side of the entry and instantly killed. The explosion was caused by gas igniting at a gob fire, which had taken place in the old workings down the south slope. The men, at the time of the explosion, were putting in stoppings to seal off the old works from the main road.

March 15, 1903, a second explosion occurred at the same mine, when five men were killed, namely: Anton Hassell, miner, aged 38 years, married, leaving a widow and three children; Anton Jeokoski, miner, aged 23 years, single; William Alderson, miner, aged 28 years, married, leaving a widow and two children; A. Wilson, miner, aged 51 years, married, leaving a widow and seven children; and James Hutchinson, miner, aged 46 years, married, leaving a widow and eight children. The last three named are buried in the mine—their bodies could not be found by the rescuing party. There were six men in the mine when the second explosion occurred, at work repairing the stoppings between the entries in order to restore the ventilation, which the first explosion had destroyed. William Humphreys was the only one of the six men taken out alive.

March 16, 1903, a third explosion occurred at this mine, the force of which was so great that some of the timbers were blown off of the top of the air shaft. A. W. Michael, a carpenter, was struck in the breast by a piece of flying timber, which caused his death three hours afterwards. He was 38 years of age, and leaves a widow and four children. The company caused the mine to be flooded with water immediately after the last explosion, and it will not be reopened.

May 29, 1903, James Kerovsky, miner, aged 48 years, married, was killed by a fall of rock at the face of his working place, in the South Wilmington No. 1 mine of the C., W. & V. Coal company, Grundy county. He leaves one child dependent.

The tables of the fatal and non-fatal casualties follow; also the statistical tables, by counties, of the output, prices and values and other detailed information regarding the coal industry in the district.

Respectfully submitted,

HECTOR MCALLISTER,

State Inspector of Mines, First District, Streator.

Fatal Casualties—First District—July 1, 1903.

Date.	Name.	Age.	Occupation.	Residence.	Married	Widows.	Children.	Single.	Dependents.	Cause of Accident.
1902,										
July	9 Antonia Gracele	50	Miner	Coal City	1	1	2		2	Falling rock
	9 John Cherry	21	do	Pontiac				1		Premature blast
Sept.	25 A. Brochigne	40	do	Oglesby					1	Falling coal
Oct.	6 Gregor Zora	45	do	Carbon Hill	1	1	4		5	Falling rock
	8 John Jauks	52	do	LaSalle	1	1	6		6	Falling coal
Nov.	7 Isaac Gustine	16	do	Diamond				1	1	Falling rock
	27 John Kelcie	26	do	Clark City	1	1	1		2	Falling coal
Dec.	9 Michael Vercemak	16	do	Streator				1		do
	24 John Smith	35	do	Pontiac				1	1	Falling rock
Jan.	23 Andrew Bovalar	38	do	Heenanville	1	1	4		5	do
Feb.	6 Joseph Samecek	56	do	Coal City	1	1			1	do
	11 Fred Coleman	23	Driver	LaSalle				1	1	Pit car
	24 Dominic Carmel	26	Miner	Braceville				1	1	Falling rock
Mar.	7 James Baker	52	do	Oglesby	1	1	2		3	do
	13 James Hewitt	23	Driver	Cardiff				1		Gas explosion
	13 John McClusky	23	Miner	do	1	1	1		2	do
	13 Jas. Barra	41	do	do	1	1	4		5	do
	15 Anton Hassell	38	do	do	1	1	3		4	do
	15 Anton Jeokoski	23	do	do				1	1	do
	15 William Alderson	28	do	do	1	1	2		3	do
	15 A. Wilson	51	do	do	1	1	7		8	do
	15 James Hutchinson	46	do	do	1	1	8		9	do
	16 A. M. Michaels	38	Carpenter	do	1	1	4		5	Flying timber
May	29 James Kerovsky	48	Miner	S. Wilm'ng'n	1		1		1	Falling rock
	Total—24				15	14	49	9	61	

Recapitulation of Fatal Casualties—First District—1903.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Coal City	2	Driver	2	Falling rock	8	Star Mining C. Co. No. 6	1
Pontiac	2	Carpenter	1	Falling coal	5	Pontiac Coal Co.	2
Oglesby	2	Miner	21	Gas explosion	8	Oglesby mine	2
Carbon Hill	1			Pit car	1	LaSalle Co. C. & C. Co.	1
LaSalle	2			Flying timber	1	LaSalle No. 1	1
Diamond	1			Premature blast	1	LaSalle B.	1
Clark City	1					LaSalle No. 2	1
Streator	1					Pontiac	1
Heenanville	1					Pontiac No. 1	2
Braceville	1					Pontiac No. 6	1
Cardiff	9					Pontiac No. 5	1
S. Wilmington	1					Pontiac No. 4	1
						Cardiff	8
						S. Wilmington No. 1	1
Total	24		24		24		24

Non-Fatal Casualties—First District—July 1, 1903.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and Cause of Injury.	Time lost—days.
1902									
July 3	Thos. Doherty ...	38	Braidwood ..	....	1	....	....	Arm injured; falling rock	80
10	John Fenaw.....	30	S. Wilm'ton	....	1	....	....	Back injured; falling rock.....	35
11	Peter Wahl.....	45	Streator	1	....	6	5	Back and hip injured; falling rock.....	90
15	Frank Lucas.....	23	Braceville ..	1	....	1	2	Back and hip injured; falling rock.....	170
Aug. 7	And'w Miarinko	23	Heenanville ..	....	1	....	....	Finger injured; falling coal ..	37
7	M. Mulchilli ..	40	S. Wilm'ton	1	....	2	3	Leg injured; falling coal.....	60
8	William Clelland	23	.. do	1	....	2	3	Thumb amputated by falling coal.....	35
15	E. Garrison	47	Streator	1	....	....	1	Leg injured; falling rock	120
Sept. 4	W. Betoa	21	S. Wilm'ton	....	1	....	....	Collar bone broken; falling rock.....	34
5	Nick Lochr.....	52	LaSalle	1	....	5	6	Foot bruised; falling rock	59
8	W. Geelec	28	.. do .....	....	1	....	....	Back bruised; falling rock.....	*
8	William Granger.	50	S. Wilm'ton	1	....	2	3	Thumb bruised; falling coal.....	49
8	Martin Baker ..	27	Oglesby	1	....	1	2	Back injured; pit car.....	30
8	John Eleck	55	Braidwood ..	1	....	3	3	Foot injured; pick	42
19	F. Kreda	22	.. do .....	....	1	....	....	Leg broken; falling rock	155
26	John Reay	21	Streator .....	....	1	....	....	Leg bruised; pit car	30
30	Chas. White	27	LaSalle	1	....	1	....	Arm broken; cage	65
Oct. 6	Joe Macovels ..	52	Braidwood ..	1	....	4	4	Leg broken; falling rock.....	148
9	Pat McDermot...	36	LaSalle	1	....	4	5	Ankle dislocated by pit car ..	52
10	Suafine Corsine.	22	Clark City ..	....	1	....	....	Leg injured; falling rock	30
16	P. Grubick	20	LaSalle .....	....	1	....	....	Finger injured; pit car	52
20	J. Pansegnalish	40	.. do .....	....	1	....	....	Back injured; falling coal	35
24	Andrew Rolt	37	Braidwood ..	1	....	4	5	Finger injured; falling rock ..	35
30	John Cave	58	Streator	1	....	3	3	Hip and ribs injured; falling timber.....	30
Nov. 4	James Lynch ...	43	.. do	1	....	5	6	Ankle sprained; slipping on rail.....	30
7	Alex. Patterson.	23	Diamond .....	....	1	....	....	Leg broken; pit car	180
11	William Fallen ..	29	S. Wilm'ton	....	1	....	....	Hand injured; falling coal.....	55
13	Robt. Robertson.	17	Diamond .....	....	1	....	....	Leg broken; pit car.....	166
24	Anton Gegibus ..	52	S. Wilm'ton	....	1	....	....	Foot bruised; falling coal.....	56
25	Thos. Smith	49	Streator	1	....	1	....	Knee bruised; falling rock	33
26	Hector Dennison.	32	.. do	1	....	1	2	Leg broken; pit car	150
26	V. Balbulot	40	Carbon Hill.	1	....	1	2	Leg injured; pit car	40
26	L. Hadosky	26	Kangley .....	....	1	....	....	Arm injured; falling rock	30
Dec. 4	M. Wozrshosky ..	39	LaSalle	1	....	7	8	Back injured; falling coal	36
26	Anton Horstirla.	50	.. do .....	....	1	....	....	Foot injured; cage	50
1903									
Jan. 7	John Griffith ..	55	Streator	1	....	4	4	Leg broken; falling rock.....	*
21	B. Columbus	45	Braidwood ..	1	....	4	5	Leg broken; falling rock	108
23	John Hemolkie ..	40	.. do .....	....	1	5	6	Knee bruised; falling rock.....	35
30	S. Monlewich ..	48	Minonk	1	....	....	1	Leg broken; falling rock	120
Feb. 2	Thos. Snoden ..	40	Streator .....	....	1	....	....	Collar bone broken; timber.....	36
3	M. Klordan	30	Pera .....	....	1	....	....	Ankle sprained; pit car	87
3	John McClernan.	50	Kangley	1	....	7	7	Leg broken; falling rock	120
9	D. Selloto	65	.. do .....	....	1	....	....	Back bruised; falling rock	32
19	Anton Renetti ..	31	S. Wilm'ton	....	1	....	....	Hand bruised; pit car	40
24	Jos. Groshinski.	45	LaSalle .....	....	1	....	....	Leg bruised; pick	48
Feb. 25	R. McLean	18	S. Wilm'ton	....	1	....	....	Hand injured; pit car	49
Mar. 9	F. Teskir	29	LaSalle .....	....	1	....	....	Arm broken; pit car	84
12	John Spreat	50	.. do	1	....	2	2	Head cut; falling coal	*
12	John Vlra	31	S. Wilm'ton	1	....	4	5	Finger injured; falling rock ..	49
13	John Morrell ..	42	Diamond	1	....	5	6	Finger injured; falling rock ..	72
17	Steve Dowell ..	51	Braidwood ..	....	1	....	....	Arm injured; falling rock	42
24	John Jargeel ..	29	S. Wilm'ton	....	1	....	....	Hand broken; falling coal.....	49
28	Henry Spaeat ..	46	LaSalle	1	....	5	5	Leg broken; pit car	*
Apr. 2	H. Wodarchek ..	23	.. do .....	....	1	....	....	Body bruised; pit car	*
2	Martin Krattick.	38	Pera	1	....	1	2	Head cut; falling coal	38
7	John Barron	56	Streator	1	....	1	1	Hand and face burned; explosion of gas.....	65
11	V. Crone	22	S. Wilm'ton	....	1	....	....	Foot injured; falling rock.....	49
20	Jas. Kossio	25	Carbon Hill.	....	1	....	....	Shoulder injured; falling rock	30
22	John Wissou	19	Kangley .....	....	1	....	....	Back injured; falling rock.....	125
24	S. Curchar	45	S. Wilm'ton	....	1	....	....	Shoulder injured; falling rock	56
30	P. Sammon	25	.. do .....	....	1	....	....	Back and hip injured; falling rock.....	42

Non-Fatal Casualties—First District—July 1, 1903—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and Cause of Injury.	Time lost—days.
May 7	James Martin....	58	LaSalle.....	1	....	1	1	Leg broken; falling coal.....	*
11	John Vallentuo..	37	S. Wilm'ton	1	....	3	4	Back injured; falling rock....	35
16	Joe Bartholomew	20	do	....	1	....	4	Arm broken; falling coal.....	42
18	N. Hellenberg....	47	Peru.....	1	....	4	5	Toes broken; falling rock.....	40
20	Oscar Solberg....	30	Streator....	1	....	1	1	Hip bruised; pit car.....	*
25	Joseph Hozle....	24	Heenanville..	1	....	1	1	Collar bone broken; falling rock.....	*
27	Henry Larkin....	29	Braceville....	....	1	....	1	Leg broken; falling timber....	*
30	S. Montiswlch....	48	Minonk.....	1	....	1	1	Leg broken; falling rock.....	*
June 1	Peter Clauson....	39	Heenanville..	1	....	3	4	Leg broken; falling rock.....	*
3	Stephen Roth....	55	Peru.....	1	....	3	4	Ribs broken; falling timber....	30
28	Joseph Givens....	27	Kangley.....	....	1	....	1	Leg broken; falling rock.....	*
30	Fred Rodzinski..	50	LaSalle.....	1	....	5	6	Leg broken; falling rock.....	*
Totals—73.....		..	.....	37	36	108	134	.....	3697

* Not recovered July 1, 1903.

Total men injured.....	73
Not recovered July 1, 1903.....	13
Number recovered July 1, 1903.....	60
Time lost by men recovered.....	3,697 days
Average days lost by men recovered.....	61.6

Recapitulation of Non-Fatal Casualties—First District—1903.

Residence.	No	Occupation.	No.	Nature of Casualties.	No	Colliery.	No.
Braceville.....	2	Cagers.....	2	Falling coal.....	12	Acme.....	3
Braidwood....	8	Drivers.....	10	Falling rock.....	36	Braceville.....	3
Carbon Hill...	2	Laborer.....	1	Falling timber.....	4	Cahill, James.....	3
Clark City....	1	Miners.....	54	By cage.....	2	C., W. & V.....	28
Diamond.....	3	Timber men..	2	Gas explosion.....	1	E. Hakes.....	2
Heenanville.,	3	Top men.....	2	Pit cars.....	15	Gar. Wilm. Coal Co.....	1
Kangley.....	5	Trip rider....	1	By pick.....	2	LaSalle C. C. Co.....	15
LaSalle.....	15	Trapper.....	1	Slipped on rail.....	1	Murphy-Keenan Co.....	2
Minonk.....	2					Oglesby.....	2
Oglesby.....	1					Star Coal Co.....	5
Peru.....	4					Taylor & Cavanaugh....	2
Streator.....	11					Wilm. C. M. & Mfg. Co..	7
S. Wilmington	16						
Total.....	73		73		73		73

Table Showing the Number and Nature of Non-Fatal Casualties, Conjugal Relations and Time Lost—First District—1903.

Nature of Injuries.	Number.	Married.	Single.	Dependents.	TIME LOST		Per cent of injuries.
					Total days.	Average days.	
Arm broken	3	.....	3	.....	191	63.66	4.1
Arm injured	3	.....	3	.....	152	50.66	4.1
Ankle sprained	2	1	1	6	117	58.3	2.74
Ankle dislocated	1	1	.....	5	52	52	1.37
Back injured	9	4	5	16	393	43.66	12.33
Back and hip	2	1	1	5	132	66	2.74
Body bruised	1	.....	1	.....	*	.....	1.37
Collar bone broken	3	1	2	1	70	23.33	4.1
Foot injured	5	2	3	9	256	51.2	6.85
Fingers injured	5	3	2	16	245	40.9	6.85
Hand broken	1	.....	1	.....	49	49	1.37
Hand injured	3	.....	3	.....	124	41.3	4.1
Hand and face burned	1	1	.....	1	65	65	1.37
Head cut	2	2	.....	4	38	38	2.74
Hip bruised	1	1	.....	1	*	.....	1.37
Hip and ribs injured	1	1	.....	3	30	30	1.37
Knee injured	2	1	1	6	68	34	2.74
Leg injured	6	3	3	6	328	55.33	8.22
Leg broken	16	11	5	40	1,147	71.7	22.00
Ribs broken	1	1	.....	4	30	30	1.37
Shoulder injured	2	.....	2	.....	86	43	2.74
Thumb amputated	1	1	.....	3	35	35	1.37
Thumb injured	1	1	.....	3	49	49	1.37
Toes broken	1	1	.....	5	40	40	1.37
Total	73	37	36	134	3,697	50.64	100.00

* Still idle.

Grundy County—First District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	C., W. & V. Coal Co., 1...	S. Wilmington	293,007	893	181,084	55,886	.....	60,144
2	Braceville Coal Co., 5....	Braceville....	163,285	.....	127,607	.....	.....	35,678
3	C., W. & V. Coal Co., 2....	S. Wilmington	149,902	.....	80,873	40,040	.....	28,989
4	Big Four Wilm. Coal Co., 3	Coal City.....	145,013	256	108,499	6,783	1,011	28,464
5	Wilmington C. M. & Mfg. Co., 4.....	Diamond.....	118,662	.....	95,002	.....	.....	23,660
6	Taylor & Cavanaugh, 5....	Carbon Hill..	114,960	.....	89,409	.....	.....	25,551
7	Big Four Wilm. Coal Co., 2	Coal City.....	106,683	.....	68,248	3,436	13,824	21,175
8	Wilmington Star Mining Co., 6.....	.. do	105,856	1,320	40,732	.....	42,269	21,535
9	Wilmington C. M. & Mfg. Co., 5.....	Diamond.....	80,094	.....	65,577	.....	.....	14,517
10	Wilmington Star Mining Co., 5.....	Coal City.....	79,818	371	61,165	.....	3,803	14,479
11	Taylor & Cavanaugh, 4....	Carbon Hill..	64,459	.....	46,501	.....	.....	17,958
12	Star Coal Co., 1.....	.. do	8,798	29	6,558	.....	.....	2,201
Totals			1,435,527	2,869	971,255	106,145	60,907	294,351
LOCAL MINES.								
1	Espley & Handwark.....	Morris	4,079	.....	3,000	.....	.....	1,079
2	Morris Carbon Coal Co..	.. do	3,529	.....	3,229	.....	.....	300
3	William Wood.....	.. do	3,320	.....	2,020	.....	.....	300
4	Mitchell Bros.....	.. do	2,280	.....	1,800	.....	.....	480
5	Frank Gilbride.....	.. do	2,150	.....	2,025	.....	.....	125
6	John Cryer, Jr.....	.. do	1,995	.....	1,895	.....	.....	100
7	James Bell.....	.. do	1,953	.....	1,603	.....	.....	350
8	Fleming & Byrne.....	.. do	1,450	.....	1,300	.....	.....	150
9	Henry Tesdall.....	.. do	652	.....	620	.....	.....	32
10	R. Bean.....	.. do	1,000	.....	875	.....	.....	125
Totals			22,408	.....	19,367	.....	.....	3,041
Totals—22 mines..			1,457,935	2,869	990,622	106,145	60,907	297,392

Mines in 1902, 25.

New mines, 1.

Abandoned mines, 4.

Mines in 1903, 22.

Grundy County—First District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT			Days of active operation.	Tons mined by hand	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$376,337	428	111	539	274,746	1,967	21,294	297	298,007	\$0 81	2,000	1	10	1
203,006	225	84	309	155,547	2,395	5,343	278	163,285	81	1,800	1	2	2
189,869	203	55	258	128,647	8,217	13,138	273	149,802	81	2,500	.....	6	3
181,240	216	45	261	141,223	.....	3,790	225	145,013	81	164	.....	.....	4
152,828	267	49	316	113,098	3,564	2,000	220	118,662	81	2,228	1	6	5
139,965	219	56	275	103,312	3,455	8,193	251	114,960	81	132	.....	1	6
133,013	146	47	193	98,432	4,561	3,690	242	106,683	81	132	.....	.....	7
125,265	157	70	227	103,971	.....	1,885	264	105,856	81	645	2	.....	8
104,791	160	36	196	77,094	.....	3,000	276	80,094	81	2,552	.....	3	9
104,819	120	87	207	72,363	5,091	2,364	268	79,818	81	230	.....	.....	10
73,962	131	46	177	62,227	.....	2,232	268	64,459	81	70	1	1	11
10,387	141	28	169	8,507	50	231	27	8,788	81	.....	.....	.....	12
\$1,795,012	2,413	714	3,127	1,339,167	29,300	67,060	260.2	1,435,527	\$0 82.5	12,453	6	29	
\$8,261	10	1	11	.....	4,079	.....	200	4,079	\$1 15	.....	.....	.....	1
8,492	10	1	11	.....	3,529	.....	225	3,529	1 15	.....	.....	.....	2
8,152	8	2	10	.....	3,320	.....	251	3,320	1 55	.....	.....	.....	3
5,382	7	1	8	.....	2,250	.....	200	2,250	1 55	.....	.....	.....	4
5,694	6	2	8	.....	2,150	.....	210	2,150	1 55	.....	.....	.....	5
4,817	5	1	6	.....	1,995	.....	225	1,995	1 45	.....	.....	.....	6
4,483	5	1	6	.....	1,953	.....	210	1,953	1 55	.....	.....	.....	7
3,710	5	1	6	.....	1,450	.....	200	1,450	1 55	.....	.....	.....	8
1,892	5	1	6	.....	652	.....	180	652	1 65	.....	.....	.....	9
2,519	3	1	4	.....	1,000	.....	195	1,000	1 55	.....	.....	.....	10
\$53,402	64	12	76	.....	22,408	.....	209.6	22,408	\$1 40 82	.....	.....	.....	
\$1,848,414	2,477	726	3,203	1,339,167	51,708	67,060	.....	1,457,935	.....	12,453	6	29	

Kankakee County—First District--1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINE.								
1	Gardner-Wilm. Coal Co..	Clark City....	58,195	12,782	27,448	.....	1,353	16,612
	Totals—1 mine.....	.....	58,195	12,782	27,448	.....	1,353	16,612

Mines in 1902, 1.

Mines in 1903, 1.

Kankakee County—First District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$80,929	75	70	145	47,318	1,926	8,951	250	58,195	\$0.814	352	1	1
\$80,929	75	70	145	47,318	1,926	8,951	250	58,195	\$0.814	352	1	1

LaSalle County—First District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	C. W. & V. Coal Co., 2...	Streator	206,749	328	122,879	.....	.....	83,542
2	C. W. & V. Coal Co., 1...	do	199,519	.....	84,784	.....	22,838	91,897
3	LaSalle Co. C. C. Co., Union	LaSalle	182,107	147,635	.....	.....	.....	34,472
3	LaSalle Co. C. C. Co., 1	do	178,935	7,649	139,216	3,973	1,902	26,195
5	LaSalle Co. C. C. Co., LaSalle	do	166,771	58,054	80,229	.....	8,306	20,182
6	LaSalle Co. C. C. Co., Rockwell	do	162,963	5,921	96,439	32,150	852	27,661
7	Acme Coal Co., 1	Streator	158,326	.....	86,114	.....	12,217	59,995
8	Star Coal Co., 2	do	129,068	11,074	78,005	.....	4,462	35,527
9	Oglesby Coal Co., 1	Oglesby	118,761	22,615	74,663	.....	3,049	18,434
10	Mrs. E. Hakes, 2	Rutland	111,580	.....	90,595	.....	.....	20,985
11	Estate James Cahill, Cahill	Peru	72,000	.....	62,000	.....	.....	10,000
12	Ill. Zinc Co., Deer Park	do	44,979	44,979	.....	.....	.....	.....
12	N. Wilmington Coal Co., 1	Seneca	5,241	.....	4,566	.....	.....	675
14	J. C. Dawson, Deer Park	Deer Park	700	700	.....	.....	.....	.....
Totals			1,737,699	298,955	919,490	36,123	53,626	429,505
LOCAL MINES.								
1	Matthiessen & Hegeler Zinc Co., M. & H. Zinc Co.	LaSalle	96,891	96,891	.....	.....	.....	.....
2	Marseilles Coal Mining Co., Marseilles	Marseilles	15,656	15,656	.....	.....	.....	.....
3	Mounts Bros., Mounts Bros.	Streator	9,539	.....	6,291	.....	.....	3,248
4	Wm. G. Francis, Francis	do	5,400	.....	3,600	.....	.....	1,800
5	T. B. Smith & Son	do	2,080	.....	1,387	.....	.....	693
6	Lewis Evans	Kangley	2,000	1,500	400	.....	.....	100
7	Oscar Klmes	Streator	1,450	1,450	.....	.....	.....	.....
8	Haar Bros	do	1,100	.....	800	.....	.....	300
9	Alloway & Stevie	do	500	.....	400	.....	.....	100
10	Wm. Thomas & Co.	do	500	.....	400	.....	.....	100
11	John McNeil	Kangley	600	600	.....	.....	.....	.....
12	James McCullough	Ottawa	800	.....	775	.....	.....	25
13	Ringer & Hoehstetter	do	600	.....	600	.....	.....	.....
14	Myer & Hendee	do	650	.....	650	.....	.....	.....
15	T. B. Farrell	do	200	.....	200	.....	.....	.....
16	Daniel Vazaine	do	200	.....	175	.....	.....	25
17	L. W. Brewer	do	400	.....	350	.....	.....	50
18	William Saxby	do	300	.....	300	.....	.....	.....
19	James Edson	do	200	.....	200	.....	.....	.....
20	John Taylor	do	350	.....	300	.....	.....	50
21	William Mertz	do	410	.....	375	.....	.....	35
Totals			139,856	116,127	17,203	.....	.....	6,526
Totals—35 mines..			1,877,555	415,082	936,693	36,123	53,626	436,031

Mines in 1902, 35.

New mines, 6.

Abandoned mines, 6.

Mines in 1903, 35.

LaSalle County—First District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine					Number of fatal.	Number of non-fatal.	
\$206,345	237	72	309	376,837	8,608	11,304	268	206,749	\$0 58	3,445	1	2	1
180,346	261	101	362	195,339	20	4,159	220	199,519	58	6,650	1	9	2
276,834	290	102	392	135,562	41,659	4,887	282	182,107	76	.....	.....	5	3
284,271	293	83	376	171,947	1,361	5,627	288	178,935	76	.....	1	3	4
260,580	224	85	309	284,413	18,908	9,060	247	166,771	76	.....	1	3	5
255,619	228	72	300	162,963	.....	.....	269	162,963	76	.....	.....	5	6
192,255	210	70	280	118,757	16,607	22,962	267	158,326	58	3,166	.....	3	7
165,059	198	57	255	126,293	.....	2,775	249	129,068	58	9,210	.....	4	8
179,237	179	105	284	108,615	3,584	6,562	224	118,761	76	.....	2	2	9
142,725	175	64	239	102,980	5,000	3,600	236	111,580	76	.....	.....	2	10
113,500	120	42	162	57,000	13,000	2,000	265	72,000	76	.....	.....	3	11
83,211	59	36	95	44,685	62	332	302	44,979	76	1,371	.....	.....	12
11,584	20	8	28	1,090	3,486	675	240	5,241	1 00	45	.....	.....	13
630	6	4	10	650	.....	50	60	700	58	20	.....	.....	14
<u>\$2,352,196</u>	<u>2,500</u>	<u>901</u>	<u>3,401</u>	<u>1,551,511</u>	<u>112,195</u>	<u>73,993</u>	<u>258.2</u>	<u>1,737,699</u>	<u>\$0 7032*</u>	<u>23,910</u>	<u>6</u>	<u>41</u>	
\$164,715	47	33	80	875	3,466	92,550	292	96,891	\$0 40	2,950	.....	.....	1
26,615	40	16	56	.....	.....	15,656	255	15,656	1 15	.....	.....	.....	2
17,210	10	1	11	.....	9,539	.....	300	9,539	58	.....	.....	.....	3
8,820	8	3	11	.....	5,400	.....	200	5,400	58	214	.....	.....	4
3,398	6	2	8	.....	2,080	.....	177	2,080	64	42	.....	.....	5
3,420	6	1	7	.....	2,000	.....	160	2,000	64	.....	.....	.....	6
2,072	3	.....	3	.....	1,480	.....	180	1,480	58	.....	.....	.....	7
1,750	4	1	5	.....	1,100	.....	200	1,100	58	8	.....	.....	8
1,030	2	.....	2	.....	500	.....	160	500	58	.....	.....	.....	9
1,030	2	.....	2	.....	500	.....	140	500	58	.....	.....	.....	10
1,020	2	1	3	.....	600	.....	240	600	58	50	.....	.....	11
562	4	1	5	.....	800	.....	200	800	1 10	.....	.....	.....	12
1,200	3	.....	3	.....	600	.....	190	600	1 10	.....	.....	.....	13
1,300	3	.....	3	.....	650	.....	180	650	1 20	.....	.....	.....	14
500	2	.....	2	.....	200	.....	120	200	1 25	.....	.....	.....	15
455	2	.....	2	.....	200	.....	130	200	1 20	.....	.....	.....	16
735	3	.....	3	.....	400	.....	160	400	1 20	.....	.....	.....	17
750	3	.....	3	.....	300	.....	150	300	1 20	.....	.....	.....	18
500	2	.....	2	.....	200	.....	140	200	1 20	.....	.....	.....	19
800	2	.....	2	.....	350	.....	120	350	1 20	.....	.....	.....	20
962	3	.....	3	.....	410	.....	130	410	1 20	.....	.....	.....	21
<u>\$239,844</u>	<u>157</u>	<u>69</u>	<u>216</u>	<u>875</u>	<u>30,775</u>	<u>108,206</u>	<u>184</u>	<u>139,856</u>	<u>\$0 5577</u>	<u>3,274</u>	<u>.....</u>	<u>.....</u>	
<u>\$2,592,040</u>	<u>2,657</u>	<u>560</u>	<u>3,617</u>	<u>1,552,386</u>	<u>142,970</u>	<u>182,199</u>	<u>.....</u>	<u>1,877,655</u>	<u>.....</u>	<u>27,174</u>	<u>6</u>	<u>40</u>	

* Average of two contract prices, 58 and 82 cents.

Livingston County—First District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Cardiff Coal Co., 1.....	Cardiff.....	201,556	40,520	95,587	23,711	28	41,710
2	Pontiac Coal Co., Pontiac	Pontiac.....	55,650	30,100	15,100	.....	1,450	9,090
3	Beggs Davis & Co., Wal-	Fairbury.....	16,830	3,204	8,643	.....	1,697	3,286
4	ton Bros.....							
4	A. M. Barackman, Bar-	Streator.....	10,928	551	7,360	.....	.....	3,017
5	ackman.....							
5	Alex. Anderson & Sons,	.. do	1,862	.....	1,382	.....	.....	480
6	Pleasant Hill.....	.. do	1,773	.....	1,182	.....	.....	591
6	Benjamin Davis & Son, 1	.. do .....	.....	.....	.....	.....	.....	.....
Totals.....			288,599	74,375	129,254	23,711	3,175	58,084
LOCAL MINES.								
1	Fairbury Coöpn. Coal Co..	Fairbury.....	10,948	.....	5,476	1,746	1,378	2,348
2	Streator Clay Mfg. Co....	Streator.....	10,650	10,650	.....	.....	.....	.....
3	Evans Bros.....	.. do	2,317	.....	1,545	.....	.....	772
4	Edward E. Evans.....	.. do	2,080	.....	1,560	.....	.....	520
5	Harry Wonders.....	.. do	1,200	.....	900	.....	.....	300
6	Streator Aqueduct Co....	.. do	1,680	1,680	.....	.....	.....	.....
7	John Westerlund.....	.. do	882	259	518	.....	.....	105
8	William J. McMillin.....	.. do	994	.....	748	.....	.....	246
Totals.....			30,751	12,589	10,747	1,746	1,378	4,291
Totals—14 mines..			319,350	86,964	140,001	25,457	4,553	62,375

Mines in 1902, 13.

New mines, 1.

Mines in 1903, 14.

Livingston County—First District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$291,007	263	79	342	192,912	4,837	3,807	192	201,556	\$0 58	3,671	9	....	1
64,460	90	33	123	36,675	14,475	4,500	250	55,650	58	1,000	2	....	2
23,753	26	13	39	8,596	7,334	900	251	16,830	58	963	....	....	3
19,733	31	17	48	9,101	1,569	258	225	10,928	58	500	....	....	4
3,556	6	1	7	1,311	451	100	190	1,862	58	50	....	....	5
2,394	6	2	8	730	1,028	15	195	1,773	58	50	....	....	6
\$404,903	422	145	567	249,325	29,694	9,580	217	288,599	\$0 63†	6,234	11	....	
\$16,807	10	12	22	.....	10,948	.....	192	10,948	\$0 60	480	....	....	1
14,377	14	5	19	.....	.....	10,650	304	10,650	*	97	....	....	2
3,013	9	2	11	.....	2,317	.....	225	2,317	70	30	....	....	3
3,432	5	1	6	.....	2,080	.....	200	2,080	58	40	....	....	4
1,950	4	1	5	.....	1,200	.....	180	1,200	58	30	....	....	5
2,150	3	1	4	.....	.....	1,680	291	1,680	*	6	....	....	6
1,415	3	.....	3	.....	882	.....	175	882	75	11	....	....	7
1,731	5	3	8	.....	994	.....	160	994	58	45	....	....	8
\$44,875	53	25	78	.....	18,421	12,330	216	30,751	\$0 62†	739	....	....	
\$449,778	475	170	645	249,325	49,115	21,910	.....	319,350	.....	6,973	11	....	

* 12,330 tons mined by the day at \$2.28 per day to April 1, 1903, and \$2.56 per day to July 1, 1903.

† Average of two contract prices, 58 and 81 cents.

Will County—First District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINE.								
1	Murphy, Keenan & Co.,	2 Braidwood....	33,116	.....	19,342	.....	3,208	10,566
	Totals .....	.....	33,116	.....	19,342	.....	3,208	10,566
LOCAL MINES.								
1	O'Connor & Co., 2, ...	Braidwood....	2,500	.....	2,000	.....	.....	500
	Totals .....	.....	2,500	.....	2,000	.....	.....	500
	Totals—2 mines...	.....	35,616	.....	21,342	.....	3,208	9,971

Mines in 1902—3.
Abandoned—1.
Mines in 1903—2.

Will County—First District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$40,505	76	24	100	24,921	7,100	1,095	263	33,116	\$0.825	.....	....	2	1
\$40,505	76	24	100	24,921	7,100	1,095	263	33,116	\$0.825	.....	....	2	
\$6,000	6	1	7	.....	2,500	.....	80	2,500	\$1 00	.....	....	....	1
\$6,000	6	1	7	.....	2,500	.....	80	2,500	\$1 00	.....	....	....	
\$46,505	82	25	107	24,921	9,600	1,095	80	35,616	\$1 00	.....	....	2	

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Grundy	12	1,435,527	2,869	971,255	106,145	60,907	266,967	27,384	\$1,795,012
Kankakee	1	58,195	12,782	27,445	.....	1,353	1,686	14,926	80,929
LaSalle	14	1,737,699	298,955	919,490	36,123	53,626	390,931	38,574	2,352,196
Livingston ...	6	288,599	74,375	129,254	23,711	3,175	49,475	8,609	404,903
Will.....	1	33,116	.....	19,342	.....	3,208	9,471	1,095	40,505
Totals and averages..	34	3,553,136	388,981	2,066,789	165,979	122,269	718,530	90,588	\$4,673,545

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Grundy	10	22,408	.....	19,367	.....	.....	3,041	.....	\$53,402
LaSalle	21	139,856	116,127	17,203	.....	.....	6,526	.....	239,844
Livingston ...	8	30,751	12,589	10,747	1,746	1,378	2,343	1,948	44,875
Will.....	1	2,500	.....	2,000	.....	.....	500	.....	6,000
Totals and averages..	40	195,515	128,716	49,317	1,746	1,378	12,410	1,948	\$344,121
Totals district— all mines..	74	3,748,651	517,697	2,116,106	167,725	123,647	730,940	92,536	\$5,017,666

First District—1903—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED		PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
2,413	714	3,127	1,339,167	.....	29,300	67,060	260	1,435,527	.....	\$0.825	.....	12,453	6	29
75	70	145	47,318	.....	1,926	8,951	250	58,195	.....	.825	.....	352	1	1
2,500	901	3,401	1,443,332	108,179	112,195	73,993	258	1,737,699	.....	.703	.....	23,910	6	41
422	145	567	238,236	11,089	29,694	9,580	217	288,599	.....	.63	.....	6,234	11	..
76	24	100	24,921	.....	7,100	1,095	263	33,116	.....	.825	.....	.....	..	2
5,486	1,854	7,340	3,092,974	119,268	180,215	160,679	251	3,553,136	.....	\$0.737	.....	42,949	24	73

First District—1903—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
64	12	76	.....	.....	22,408	.....	209	22,408	.....	\$1.408	.....	.....	..	..
157	59	216	.....	875	30,775	108,206	184	139,856	.....	.557	.....	3,264	..	..
53	25	78	.....	.....	15,421	12,330	216	30,751	.....	.627	.....	739	..	..
6	1	7	.....	.....	2,500	.....	80	2,500	.....	1.00	.....	.....	..	..
280	97	377	.....	875	74,104	120,536	194	195,515	.....	\$0.671	.....	4,003	..	..
5,766	1,951	7,717	3,092,974	120,143	254,319	281,215	.....	3,748,651	.....	.....	.....	46,952	24	73

SECOND INSPECTION DISTRICT—1903.

TWENTIETH ANNUAL REPORT.

Counties: Bureau, Henry, Knox, Marshall, Mercer, Rock Island, Stark,
Warren.

THOMAS HUDSON, *Inspector*, Galva.

HON. DAVID ROSS, *Secretary*,

State Bureau of Labor Statistics, Springfield, Ill.:

SIR—In compliance with section 12 of an act of the General Assembly of Illinois, defining the duties of State inspectors of mines, and providing for the preservation of the health and safety of persons employed in the coal mines of the State, I have the honor to herewith submit to you the twentieth annual report for the year ended June 30, 1903, of the coal mines located in the second inspection district, and contained in the coal producing counties of Bureau, Henry, Knox, Marshall, Mercer, Rock Island, Stark and Warren.

The tabular part of the report sets forth the number of mines in the district, local and commercial; the number of miners and other employés at the different mines; the number of days worked at each mine; the quantity of powder consumed; the number of accidents, fatal and non-fatal, that have taken place, and the causes producing the same; the number of tons of lump and other grades of coal produced; the prices per ton paid for mining; the value per ton of lump and other grades of coal at the mines; also the disposition that is made of the product, whether shipped, sold to local consumers, or used for steam purposes at the mines. In fact about everything is set forth in the tables that is likely to be of interest to the general reader or to those who take a special interest in the mining industry of the State.

Several new questions were submitted to the operators in the schedules sent out for this report, namely: "Total value of mine buildings; total value of machinery, including wagons, carts, tools of all kinds, live stock, etc.; total value of shaft, including sinking, curbing, timbering, roadways, cars, haulage, and all equipments under ground; number of acres of land owned; number of acres leased for coal rights." The answers received from the operators in this district to these questions are far from satisfactory; some have given the desired information while others have failed or refused to make any reply. Many of the answers are presumed to be correct, others have given a lump sum amount or stated evasively in round numbers, etc., thus giving an

appearance and creating a suspicion that the answers are not intended to be accurate, therefore rendering the information worthless from a statistical standpoint.

The following summary is presented for the year ended June 30, 1903:

Total number of mines.....	181
Number of shipping mines.....	25
Number of mines in local trade.....	156
Number of miners.....	5,068
Number of others underground, including boys.....	1,177
Number of employes above ground.....	615
Total number of employes.....	6,860
Number of kegs of powder consumed for blasting coal.....	40,673
Number of kegs of powder used for other purposes.....	1,700
Tons of lump coal produced.....	2,302,632
Tons of all other grades produced.....	943,149
Total tons produced.....	3,245,781
Tons of coal shipped.....	2,766,006
Tons sold to local trade.....	314,051
Tons consumed at the mines.....	116,063
Tons supplied to locomotives at mines.....	49,661
Average value of lump coal per ton at the mines.....	\$1.602
Aggregate value of the total product.....	\$4,549,030.00
Average number of days of active operation, shipping mines.....	243
Average price per gross ton for hand mining, shipping mines.....	\$0.74
Number of fatal accidents.....	11
Number of non-fatal accidents.....	62
Total number of accidents.....	73
Number of employes to each fatal accident.....	624
Number of employes to each non-fatal accident.....	111
Rate of fatal accidents per 1,000 persons employed.....	1.6
Tons of coal produced to each fatal accident.....	295,071
Tons of coal produced to each non-fatal accident.....	52,351
Tons of coal produced to each miner employed.....	640
Tons of coal produced to each employe, all classes.....	473
Total number of steam boilers in use at the mines.....	145
Number of electric motors in use for haulage underground.....	3

Following is a comparative table showing the product, in tons, of each county in the district, with the loss or gain for the years ending June 30, 1902 and 1903:

COUNTIES.	TOTAL PRODUCT OF ALL GRADES OF COAL—IN TONS.		Increase.	Decrease.
	1902.	1903.		
Bureau.....	1,732,813	1,778,302	45,489	.....
Henry.....	113,697	130,663	16,966	.....
Knox.....	89,208	84,575	.....	4,633
Marshall.....	441,643	465,079	23,436	.....
Mercer.....	602,722	648,070	45,348	.....
Rock Island.....	84,100	85,700	1,600	.....
Stark.....	24,799	39,406	14,607	.....
Warren.....	15,534	13,986	.....	1,546
Totals.....	3,104,516	3,245,781	147,446	6,181
Increase.....				147,446
Decrease.....				6,181
Net increase.....				141,265

The counties of Bureau, Henry, Marshall, Mercer, Rock Island and Stark combined show a gain over the year previous of 147,446 tons. The counties of Knox and Warren show a loss of 6,181 tons. This leaves a net gain in the district for the present year over the year previous of 141,265 tons.

NEW MINES.

Four new mines of the shipping class have gone into operation during the year; two of them are new mines and have been sunk during the year, and two have been transferred from the local to the shipping class, by having side tracks and railroad connections added to their equipment. The Wyoming Coal company opened one of the new mines; it is located on the line of the C., B. & Q. R. R. north of Wyoming, Stark county, and began operations in October, 1902. The shaft is 124 feet deep, the seam is No. 6 of the Illinois section, and contains, in great profusion, the "clay-slips," "horse-back" and other irregularities usually to be found in that seam. The machinery, including the ventilating fan, is new and of modern construction. However, the irregularities in the coal seam mentioned, make it very improbable that the mine will be a large producer.

The Yates City Coal company has sunk a new shaft on the line of the C., B. & Q. R. R., about 1½ miles east of Yates City, Knox county, and commenced operations early in 1903; this seam is No. 5 of the Illinois section and is about 3½ feet thick. The conditions at this mine were not satisfactory, however, and the company sunk the shaft to a lower seam, probably No. 2; this seam is about 2 feet 8 inches thick, and, as usual with this seam, the coal is of good quality. The machinery, including a shaker screen and ventilating fan, is new and up to date. It is quite difficult, however, to operate successfully a thin seam of coal, especially when in close proximity, as in this case, to coal seams nearly double the thickness.

George R. Watson, Wyoming, Stark county, has constructed a track to connect his local mine with the C., B. & Q. R. R. This changes the mine to the shipping class. The facilities, however, for producing coal are limited, and the output will not greatly exceed that heretofore produced.

The local mine heretofore operated by Tim. Downing, Briar Bluff, Henry county, has been connected by a side track with the St. Louis division of the C., B. & Q. R. R. This coal seam is quite thin, and no great increase in the output of the mine can be expected.

There have been no mines of the shipping class worked out nor abandoned during the year.

SHAFT TOWER DESTROYED BY FIRE.

On the night of October 26, 1902, the tower and engine room and boiler shed of the Sackville Bros. local mine, near Coal Valley, Rock Island county, were destroyed by fire; the loss was about \$1,500. The property was fully insured. New buildings were created and completed in about ten days after the fire.

IMPROVEMENTS.

Substantial and costly improvements have been and are now being made at several of the Spring Valley Coal company's mines in Bureau county.

The wooden tower at the No. 3 shaft of this company has been torn down and a costly steel structure erected. Double-decked cages have been put in and everything possible done to increase the hoisting capacity of the mine.

At Seatonville, where shaft No. 4 is located, a new shaft is being sunk, similar in size and construction to shaft No. 5 at Dalzell. When the shaft is completed a steel tower will be erected; also a Capell ventilating fan will be put in, and in all probability this will become one of the largest coal producing mines in Bureau county.

At shaft No. 5, Spring Valley, a large coal washing plant has been erected, with a capacity of 100 tons an hour.

The Illinois Third Vein Coal company, Ladd, Bureau county, has erected a coal washing plant with a capacity of 50 tons an hour. Both washers here mentioned are the Link Belt Machinery company's pattern. The company will also erect at this mine a new Capell ventilating fan. This fan should have been put in some time ago. The company claims that the destruction of the factory at Pittsburg, Pa., has caused the delay. The old fan now in use is almost a mechanical wreck, and is quite insufficient for the proper ventilation of the mine. The mine, therefore, is in a rather disgraceful condition so far as ventilation is concerned.

NEW AND PROSPECTIVE MINES.

A new coal producing county in this district will, in all probability, be added to the list of counties in the report for 1904. The St. Paul Coal company has secured a large tract of coal land at or near Granville, Putnam county. The sinking of a shaft was commenced in July, this year, and the first shaft ought to be down early in January, 1904. The shaft will be about 480 feet in depth to seam No. 2; the coal will be from 3 to 3½ feet in thickness. If the opening up of this mine proves to be satisfactory, it is more than probable that several shafts will be sunk in this county. The Chicago, Milwaukee & St. Paul R. R. Co. are constructing a branch road from Davis Junction, in Lee county, to this mine, giving an outlet for the product of the mines in this section to the coal consuming centers of the great Northwest.

The Alden Coal company, Wanlock, Mercer county, has sunk a shaft one mile west of Viola, in that county; the shaft is 140 feet deep, and will go into active operation about Oct. 1, 1903.

A new shaft has been sunk about one mile east of Coal Valley, Rock Island county. A side track will be constructed to connect the mine with the Rock Island and Peoria branch of the Chicago, Rock Island & Pacific system. The shaft is about 60 feet deep, and will probably go into active operation about Oct. 1, 1903.

Among the substantial improvements that have been made at the mines in this district, during the year, mention is made of the electric motors that have been installed for underground haulage purposes. Two have been put

in at the Devlin Coal company's mine at Toluca, Marshall county, and one at the Marquette Coal company's mine at Marquette, Bureau county. The motors at Toluca are of the Westinghouse make and will weigh about eight tons each. The motor in the Marquette mine was made by the Goodman Manufacturing company and weighs about ten tons. Both types are doing excellent work.

ESCAPEMENT SHAFTS.

The following escapement shafts, with their respective depths, in feet, have been sunk during the year:

Operator.	Location of Mine.	Depth in feet.
Yates City Coal Co.....	Yates City.....	78
Wyoming Coal Co.....	Wyoming.....	124
Isaiah King.....	.. do	124
Bowman Bros.....	Yates City.....	36
Reed & Pendergast.....	Soperville	70
North Main Coal Co.....	Kewanee.....	55
Kewanee Mining & Mfg. Co.....	.. do	40

FATAL ACCIDENTS.

The following is a statement, in detail, of the fatal accidents that have taken place during the year ended June 30, 1903.

August 27, 1902, Peter Dolan, furnace man, aged 70 years, married, was injured by a fall of roof at the face of a working room in the Etherley Coal company's mine No. 2, located at Etherley, Knox county, and died Sept. 7, 11 days after the accident.

Part of the duty of the deceased was to mine the coal with which the furnace was supplied; he was engaged in this work when the roof began cracking, and giving evidence of caving in; while in the act of pushing the pit car out of the room, the roof fell, pinning him underneath. He was unable to extricate himself, and was not found for several hours; his injuries were comparatively slight, and his death was due, more to old age and the shock, than to the injuries received. He leaves a widow and grown up family.

Sept. 12, 1902, Andrew Marchetti, miner, aged 38 years, single, was killed instantly by a fall of roof at the face of his working place in the Spring Valley Coal company's mine No. 4, at Seatonville, Bureau county. A piece of roof fell, knocking him down and disengaging a prop; his partner attempted to rescue him, but before he could extricate the deceased, the roof commenced cracking and showing signs of caving in, caused probably by the removal of the prop; his partner ran to a place of safety, when suddenly a large mass of roof, about three tons, fell, crushing the deceased underneath.

Sept. 19, 1902, Martin Rodgers, miner, aged 55 years, married, was severely crushed on the breast and back by a fall of coal at the face of his working place in the Marquette Coal company's mine at Marquette, Bureau county.

The deceased was in the act of undermining, when a piece of coal 5 feet long, 3½ feet wide and 15 inches thick, suddenly fell, striking him on the breast and squeezing him against the building. If the deceased had taken the precaution, and set a sprag against the piece of coal, as should have been done, this accident would not have taken place. He leaves a widow and one child in Russia.

Oct. 21, 1902, Robert Freeland, top man, aged 63 years, married, was killed instantly, by having his head crushed and neck broken, being caught between the bottom of the cage and the lower landing at the Wyoming Coal company's mine, Wyoming, Stark county. This mine, at the time of the accident, had just been sunk; eight miners were employed driving the entries and opening up the mine. The deceased being a top man, was at work on a temporary platform, about 12 feet below the top landing, where the coal was being delivered. The north cage was at the top landing, when the deceased gave the signal to the engineer to hoist, then he walked to the shaft and kneeling down commenced a conversation with a man at the bottom of the shaft: in this position his head projected forward over the shaft, the cage descended striking him with the result as described. He leaves a widow and two children.

Nov. 7, 1902, Joseph Trompinski, miner, aged 46 years, married, was struck on the head and shoulders by a fall of roof at the face of his working place, in the Spring Valley Coal company's mine No. 3, Spring Valley, Bureau county; he died from the injuries six days after the accident. The deceased was working with his son, a young man about 17 years of age; a piece of roof about 300 pounds in weight, fell from between the props striking the deceased with the result described. It was not thought that this accident would terminate fatally but, with other complications, his death ensued. He leaves a widow, presumably in Russia, and two sons in this country.

Nov. 21, 1902, James Chevantone, a company man, aged 35 years, married, was fatally crushed through the breast and body, being run over by a loaded pit car in the Spring Valley Coal company's mine No. 2, Spring Valley, Bureau county. The deceased was engaged in "brushing" a cross road and had pushed a car loaded with rock out of the cross road onto the straight entry. A car loaded with coal had been started from the face of the straight entry, and came swiftly down the gradient behind the deceased, knocking him down, and running on to him with fatal results. He leaves a widow and four children.

Nov. 29, 1902, David Curran, a bottom cager, aged 44 years, married, was fatally injured in the spine, close to the back of the neck, by falling into the sump, at the Spring Valley Coal company's mine No. 2, Spring Valley, Bureau county. The deceased had put a car on the cage and rang the signal bell to hoist, before he had placed the guard or keeper in position; the cage started and he attempted to throw the guard into position with his foot; his shoe or trousers' leg was caught by the guard or cage, drawing him up to the door heads; he fell backwards into the sump or cage seat, a distance of 16 feet, fracturing the bones of the vertebra. He died five days after the accident. He leaves a widow and five children.

Dec. 8, 1902, William A. Hunter, miner, aged 36 years, married, was severely crushed about the head by coal flying from a blast, in the Silvis Mining company's mine No. 2, near Carbon Cliff, Rock Island county. The deceased was "driving entry," and had prepared a blast; another miner was opening a room from the entry behind and had prepared two blasts. It was their intention to light the three shots at once; the miner in the room lighted both of his shots, the deceased failed to get the fuse of his shot lighted, and had to leave the face because of the shots in the other room being lighted. The shots in the room exploded but the entry shot did not explode; the deceased thought the fuse had not burned and returned for the purpose of lighting it, when about eight feet from the face the shot exploded with results as stated; death ensued from the injuries 12 hours after the accident. He leaves a widow and four children.

April 16, 1903, John Rutka, a company man, aged 38 years, single, was killed instantly by a fall of rock in the Spring Valley Coal company's mine No. 2, Spring Valley, Bureau county. The deceased in company with four or five other company men, was engaged in taking about four feet of shale or rock from the side of an entry to make what is known as, a "lye" or double parting. The shale was hanging quite loose from the side of the entry in large masses. From some cause or want of due caution, the deceased stood in front of the loose mass, when a large block of it suddenly fell, knocking him down and completely covering him over. When extricated, life was extinct; his neck was broken and body severely crushed.

May 28, 1903, Mike Caveglia, miner, aged 47 years, single, had his back broken, and body severely crushed by a fall of roof at the face of his working place in the Spring Valley Coal company's mine No. 3, Spring Valley, Bureau county. The deceased and his partner were at work in the mine when a large mass of roof, about 2 feet wide at each end, 5 feet wide through the center, 14 feet long and 14 inches thick fell from a horizontal "smooth," striking the deceased and causing instant death.

June 30, 1903, Joseph B. Curtis, driver, aged 22 years, single, was severely crushed and had his back broken by being struck with loaded cars in the Empire Coal company's mine No. 3, Gilchrist, Mercer county. The deceased was coming out of the main north entry with a trip of four loaded cars, riding on the front end of the trip; he was seated on a triangular shaped seat made of heavy strap iron, which was attached to an iron brace-rod passing across the end of the pit-car; the rod suddenly broke, throwing him in front of the cars. An examination of the brace-rod showed that it had been welded at the point of fracture, and that the weld was faulty, and would reduce the transverse strength of the rod fully one-half.

The tables of fatal and non-fatal accidents follow, also the county tables of the mines in the district.

Respectfully submitted,

THOMAS HUDSON,

State Inspector of Mines, Second District, Galva, Ill.

Fatal Casualties—Second District—July 1, 1903.

Date.	Name.	Age.	Occupation.	Residence (town)	Married.	Widow.	Children.	Single.	Dependents.	Cause of Accident.
1902										
Aug. 27	Peter Dolan.....	70	Furn'ceman	Etherley....	1	1	..	1		Falling roof.....
Sep. 12	Andrew Marchetti ..	38	Miner.....	Seatonville..	..	..	1	..	..	.. do
19	Martin Rodgers.....	55	.. do	Marquette... 1	1	..	..	1		Falling coal.....
Oct. 21	Robert Freeland.....	63	Top-man....	Wyoming.... 1	1	2	..	3		Descending cage ..
Nov. 7	Joseph Trompinski...	46	Miner.....	Sp'g Valley. 1	1	2	..	3		Falling roof.....
21	James Chevantoné....	35	Co-man	.. do	1	1	4	..	5	Pit car.....
29	David Curran	44	Cager	.. do	1	1	5	..	6	Falling into sump...
Dec. 8	Wm. A. Hunter.....	36	Miner.....	Carbon Cliff 1	1	4	..	5		Flying coal.....
1903		11								
Apr. 16	John Rutka.....	38	Co-man	Sp'g Valley. 1	..	..	1	..	1	Falling rock
May 28	Mike Caveglia.....	47	Miner.....	.. do	..	..	1	..	1	Falling roof.....
June 30	Joseph B. Curtis.....	22	Driver.....	Gilchrist	..	..	1	..	1	Pit cars.....
	Total—11.....				7	7	17	4	24	

Recapitulation of Fatal Accidents—Second District—1903.

Residence.	No.	Occupation.	No.	Nature of casualty.	No.	Colliery.	No.
Carbon Cliff..	1	Cager.....	1	Caught by descending		Empire Coal Co.....	1
Etherley.....	1	Company men	2	cage (on surface).....	1	Etherley Coal Co....	1
Gilchrist	1	Driver	1	Caught, loaded pit cars	2	Marquette Coal Co... 1	
Marquette....	1	Furnace man.	1	Coal flying from blast ..	1	Silvis Mining Co.....	1
Seatonville...	1	Miners.....	5	Fall of coal.....	1	Spring Valley Coal	
Spring Valley	5	Top-man.....	1	Fall of roof.....	5	Co.....	6
Wyoming	1			Fell into sump, or cage		Wyoming Coal Co...	1
				seat	1		
Totals	11		11		11		11

Non-Fatal Casualties--Second District--July 1, 1903.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and Cause of Injury.	Time lost—days.
1902									
July 23	Magnus Guerin...	30	Spr'g Valley	....	1	....	....	Arm broken; falling coal.....	63
24	Joseph Jacoba...	20	Toluca	....	1	....	....	Foot bruised; cage.....	30
Aug. 1	Ben Wtlds...	58	Cable	....	1	....	3	Leg bruised; falling roof.....	35
13	Thos. Yurich...	35	Toluca	....	1	....	....	Eye injured; flying coal.....	90
14	Anton Recke...	32	Dalzell	....	1	....	2	Hip injured; falling roof.....	30
21	Mike Rock...	28	Spr'g Valley	....	1	....	....	Leg broken; falling coal.....	120
25	John Bregga...	35	Seatonville.	....	1	....	....	Arm broken; falling roof.....	60
26	Steve Boldine...	28	Toluca	....	1	....	....	1 Shoulder crushed; pit car.....	120
28	Paul Onuth...	27	Dalzell	....	1	....	1	2 Leg broken; pit car.....	150
Sept. 4	William Hall...	33	Sherrard	....	1	....	3	4 Fingers cut off; falling roof.....	40
22	J. Lindra...	20	Wenona	....	1	....	2	3 Body bruised; flying rock.....	50
Oct. 4	Speri Obirnia...	16	Spr'g Valley	....	1	....	....	Body bruised; pit car.....	60
22	Vincent Kachke...	23	Toluca	....	1	....	....	Fingers crushed; un'l'd'g rails	40
27	Mike Riva...	32	Dalzell	....	1	....	1	2 Collar bone brok'n; fall'g coal	65
27	Peter Bernardine	54	do	....	1	....	5	6 Breast injured; falling roof.....	70
Nov. 12	Chas. Conway...	19	Ladd	....	1	....	....	.... Ankle bone br'k'n; fall'g pl'nk	56
15	Louis Telesfera...	23	do	....	1	....	....	Arm crushed; cage.....	*
15	A. Griffin...	50	Loding	....	1	....	4	5 Hand burned; premature bl'st	60
18	Battista Bergarse	20	Spr'g Valley	....	1	....	....	Arm broken; pit car.....	35
Dec. 1	Albin Richl...	48	Dalzell	....	1	....	6	7 Collar bone brok'n; fall'g coal	70
1	Boeker Silvesta...	33	Ladd	....	1	....	....	1 do	35
3	J. Yurich...	39	Toluca	....	1	....	4	5 Jaw broken; falling coal.....	100
13	Wm. Keenan...	36	Spr'g Valley	....	1	....	1	2 Leg broken; coal rolling down chute	75
18	Thos. Wanless...	23	Cable	....	1	....	....	Face and arms burned; premature blast	36
19	G. Baier...	48	Wenona	....	1	....	3	4 Leg broken; falling coal.....	*
1903									
Jan. 2	Joe Klaharn...	19	do	....	1	....	....	Arm broken; pit car.....	34
6	Peter Matroda...	16	Spr'g Valley	....	1	....	....	Leg broken; pit car.....	120
6	John Pevotti...	35	Toluca	....	1	....	....	Thigh broken; falling coal.....	140
10	Joe Bruek...	45	Spr'g Valley	....	1	....	3	4 Hand crushed; falling roof.....	60
10	Martin Petrisk...	43	do	....	1	....	4	5 Leg broken; falling roof.....	60
13	Thos. Murphy...	26	Toluca	....	1	....	1	2 Foot bruised; cage.....	40
17	Joe Sieman...	19	Spr'g Valley	....	1	....	....	Finger cut off; tippie.....	35
20	Jas. Pavellities...	45	Toluca	....	1	....	4	5 Ankle broken; falling coal.....	150
23	John Anisone...	37	do	....	1	....	2	3 Ankle bruised; falling coal.....	30
24	Gus Samuelson...	23	Spr'g Valley	....	1	....	....	Foot bruised; pit car.....	32
27	Wm. Allard...	40	Kewanee	....	1	....	5	6 Leg broken; falling roof.....	80
28	Edward Studer...	56	Coal Valley.	....	1	....	6	7 Arm broken; flying coal.....	100
30	Calvin Goff...	20	Marquette	....	1	....	....	Thigh bruised; pit car.....	30
Feb. 10	John Brellnski...	14	Wenona	....	1	....	....	Foot bruised; falling roof.....	42
11	Fred Tuttle...	20	Wyoming...	....	1	....	....	Jaw broken; falling roof.....	40
11	Clyde Hamilton...	17	Spr'g Valley	....	1	....	....	Leg bruised; pit car.....	30
14	L. Matidlo...	17	do	....	1	....	....	Leg bruised; falling roof.....	60
19	Basqualla Vespa...	42	Toluca	....	1	....	6	7 Ankle broken; falling coal.....	*
25	Frederico Pozza...	23	Dalzell	....	1	....	....	Finger cut off; falling roof.....	30
28	John Osborne...	44	Spr'g Valley	....	1	....	2	3 Breast crushed; falling coal.....	*
Mar. 9	Geo. Arbuckle...	48	do	....	1	....	6	7 Breast bruised; kicked by a mule	30
9	J. Lesliski...	45	Wenona	....	1	....	1	2 Toe cut off; falling roof.....	48
14	Peter Howie...	26	Wanlock	....	1	....	....	Leg broken; pit car.....	106
18	John Robertson...	55	Sherrard	....	1	....	4	5 Ankle bruised; falling roof.....	34
20	Joe Bernardo...	30	Dalzell	....	1	....	5	6 Hand injured; falling coal.....	40
20	John Donaldson...	56	do	....	1	....	6	7 Ankle crushed; falling coal.....	70
30	Fred Masters...	40	Sherrard	....	1	....	3	4 Back injured; falling roof.....	30
Apr. 11	Fred Hoerber...	34	Ladd	....	1	....	3	4 Leg broken; falling coal.....	*
13	Herman Johnson...	45	Kewanee	....	1	....	4	5 Leg broken; falling roof.....	75
22	Walter Beattie...	56	Cable	....	1	....	....	Leg and collar bone broken; falling coal.....	50
May 27	John Rogalski...	40	Toluca	....	1	....	....	Toe broken; falling coal.....	*
June 4	John O. Dowd...	23	Spr'g Valley	....	1	....	....	Back injured; pit car.....	*
10	Mike Mulligan...	50	Marquette	....	1	1	1	1 Thumb cut off; falling coal.....	*
12	Anton Gusino...	35	Spr'g Valley	....	1	....	....	Leg bruised; falling coal.....	*
12	Selano Lollil...	50	do	....	1	....	....	1 Back crushed; falling coal.....	*
12	Pat O'Rourke...	25	Ladd	....	1	....	2	3 Ankle injured; falling coal.....	*
25	Louis Biogrola...	39	Dalzell	....	1	....	....	Leg broken; falling coal.....	*
	Totals				33	29	103	136	3086

* Not recovered July 1, 1903.

Total number injured.....	62
Not recovered July 1, 1903.....	12
Recovered June 30, 1903.....	50
Time lost by men recovered.....	3,086 days
Average days lost by men recovered.....	61.72

Recapitulation of Non-Fatal Accidents—Second District—1903.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Cable.....	3	Car trimmer..	1	Caught by cage.....	3	Alden Coal Co.....	1
Coal Valley...	1	Company men	3	Caught by pit cars...	11	Coal Valley Mining Co..	6
Dalzell	9	Drivers	10	Caught by tippie....	1	Devlin Coal Co.....	11
Kewanee.....	2	Dumper	1	Coal rolling down		Ill. 3d Vein Coal Co....	5
Ladd.....	5	Laborer.....	1	chute	1	Kewanee Coal Co.....	2
Loding.....	1	Miners.....	43	Falls of coal.....	22	Marquette Coal Co.....	2
Marquette.....	2	Top cagers	2	Falls of roof.....	16	Pryce's Mine	1
Seatonville...	1	Track layer...	1	Kicked by mule.....	1	Silvis Mining Co.....	1
Sherrard.....	3			Premature blast....	3	Spring Valley Coal Co..	27
Spring Valley	17			Rock flying from		Watson's Mine.....	1
Tolna.....	11			blast	1	Wenona Coal Co.....	5
Wanlock.....	1			Struck by flying coal.	1		
Wenona.....	6			Struck by plank.....	1		
Wyoming.....	1			Unloading rails.....	1		
Total.....	62		62		62		62

Table Showing the Number and Nature of Non-Fatal Casualties, Conjugal Relations, and Time Lost—Second District—1903.

Nature of Injuries.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Ankles broken and crushed	7	6	1	30	340	68.00	11.28
Arms broken and injured.....	5	1	4	7	292	58.40	8.06
Arm cut off	1	.....	1	.....	.....	.....	1.61
Backs injured	3	2	1	5	30	30.00	4.84
Bodies injured	2	1	1	3	110	55.00	3.24
Breasts injured	3	3	.....	16	100	50.00	4.84
Collar bones broken.....	3	3	.....	10	170	42.50	4.84
Eye injured.....	1	.....	1	.....	90	90.00	1.61
Face and arms burned	1	.....	1	.....	36	36.00	1.61
Feet injured	4	1	3	2	144	36.00	6.45
Fingers crushed and cut off.....	4	1	3	4	145	36.25	6.45
Hands injured.....	3	3	.....	15	160	53.33	4.84
Hips injured.....	1	1	.....	3	30	30.00	1.61
Jaws broken.....	2	1	1	5	140	70.00	3.23
Leg and collar bone broken	1	.....	1	.....	50	50.00	1.61
Legs broken and injured	15	8	7	32	911	60.80	24.20
Shoulders injured.....	1	1	.....	1	120	120.00	1.61
Thighs broken and injured	2	.....	2	.....	170	85.00	3.23
Thumb cut off	1	.....	1	1	.....	.....	1.61
Toes cut off and broken.....	2	1	1	2	48	48.00	3.23
Totals, averages and percentages	62	33	29	136	3,086	61.72	100.00

Bureau County—Second District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Spring Valley Coal Co., 2	Spring Valley	333,832	14,117	266,917	.....	742	52,056
2	Spring Valley Coal Co., 1	.. do	327,146	18,626	255,072	.....	8,095	45,352
3	Spring Valley Coal Co., 3	.. do	272,637	5,937	221,885	.....	8,926	36,390
4	Marquette Coal Co., 1	Marquette	270,472	6,982	139,540	97,148	.....	26,802
5	Ill. 3d Vein Coal Co., B	Ladd	187,401	6,885	144,814	.....	.....	36,202
6	Spring Valley Coal Co., 5	Spring Valley	185,998	1,102	150,814	.....	5,332	28,750
7	Spring Valley Coal Co., 4	Seatonville	174,443	3,830	135,985	.....	.....	34,625
Totals			1,751,929	56,979	1,314,527	97,148	23,095	260,180
LOCAL MINES.								
1	Wm. Masters & Son	Sheffield	3,905	.....	3,905	.....	.....	.....
2	Matthew Duncan	.. do	3,448	.....	3,448	.....	.....	.....
3	Ratliffe Bros	.. do	3,150	.....	3,000	.....	.....	150
4	Thos. Herrington	Princeton	2,600	.....	2,600	.....	.....	.....
5	Wm. Smith & Sons	.. do	2,472	.....	2,472	.....	.....	.....
6	Wm. Brandt	Mineral	2,444	.....	2,394	.....	.....	50
7	George Heathcock	Princeton	2,236	.....	2,236	.....	.....	.....
8	Edward Donahue	Sheffield	1,770	.....	1,770	.....	.....	.....
9	Noah Hodgett	Mineral	1,400	.....	1,400	.....	.....	.....
10	John V. Duncan	Sheffield	1,100	.....	1,100	.....	.....	.....
11	A. W. Walton	Princeton	1,068	.....	1,068	.....	.....	.....
12	C. W. Riley	Sheffield	540	.....	500	.....	.....	40
13	Tiskilwa Coal Co.	Tiskilwa	240	.....	240	.....	.....	.....
Totals			26,373	.....	26,133	.....	.....	240
Totals—20 mines ..			1,778,302	56,979	1,340,660	97,148	23,095	260,420

Mines in 1902, 15.

New mines, 2.

Mines in 1903, 20.

Bureau County—Second District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Prices paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for ship- ment and sup- plied to locomo- tives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$439,257	553	190	743	324,870	.....	8,962	272	333,832	\$0 76	.....	3	8	1
431,289	535	162	697	302,700	14,760	9,686	264	327,146	76	.....	.....	4	2
362,762	499	139	638	267,432	.....	5,205	236	272,637	76	.....	2	3	3
435,399	415	115	530	257,984	2,858	9,630	280	270,472	76	.....	1	2	4
247,881	408	151	559	169,081	4,520	13,800	225	187,401	76	.....	.....	5	5
246,795	234	104	338	180,406	1,010	4,582	297	185,998	76	.....	.....	11	6
220,702	308	154	462	162,066	3,315	9,062	275	174,443	76	.....	1	1	7
<u>\$2,384,085</u>	<u>2,952</u>	<u>1,015</u>	<u>3,967</u>	<u>1,664,539</u>	<u>26,463</u>	<u>60,927</u>	<u>264</u>	<u>1,751,929</u>	<u>\$0.775*</u>	<u>.....</u>	<u>7</u>	<u>34</u>	
\$6,834	10	1	11	.....	3,905	.....	250	3,905	\$1 00	.....	.....	.....	1
6,896	9	2	11	.....	3,448	.....	200	3,448	1 00	.....	.....	.....	2
4,575	6	1	7	.....	3,000	150	250	3,150	87 ¹ / ₂	.....	.....	.....	3
5,200	6	1	7	.....	2,600	.....	208	2,600	1 00	160	.....	.....	4
4,944	6	1	7	.....	2,472	.....	200	2,472	1 00	80	.....	.....	5
4,214	6	1	7	.....	2,394	50	200	2,444	87 ¹ / ₂	.....	.....	.....	6
4,472	5	1	6	.....	2,236	.....	270	2,236	1 00	60	.....	.....	7
3,540	5	1	6	.....	1,770	.....	200	1,770	1 00	.....	.....	.....	8
2,450	6	2	8	.....	1,400	.....	150	1,400	1 00	.....	.....	.....	9
2,200	3	1	4	.....	1,100	.....	220	1,100	1 00	.....	.....	.....	10
2,136	4	1	5	.....	1,068	.....	200	1,068	1 00	70	.....	.....	11
915	3	1	4	.....	500	40	150	540	1 00	.....	.....	.....	12
600	2	1	3	.....	240	.....	80	240	1 25	.....	.....	.....	13
<u>\$48,976</u>	<u>71</u>	<u>15</u>	<u>86</u>	<u>.....</u>	<u>26,133</u>	<u>240</u>	<u>192</u>	<u>26,373</u>	<u>\$0 97</u>	<u>370</u>	<u>.....</u>	<u>.....</u>	
<u>\$2,433,061</u>	<u>3,023</u>	<u>1,030</u>	<u>4,053</u>	<u>1,664,539</u>	<u>52,596</u>	<u>61,167</u>	<u>264</u>	<u>1,778,302</u>	<u>.....</u>	<u>370</u>	<u>7</u>	<u>34</u>	

* Average of two contract prices, 76 and 82 cents.

Henry County—Second District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Kewanee Coal & Min. Co.	Kewanee	39,450	.....	25,450	.....	.....	14,000
2	Atlas Coal Co. 1.	Galva	15,888	.....	15,288	.....	100	500
3	Briar Bluff Coal Co.	Briar Bluff..	3,395	.....	2,945	.....	.....	450
Totals			58,733	.....	43,683	.....	100	14,950
LOCAL MINES.								
1	Kewanee Min. & Mfg. Co.	Kewanee	15,000	.....	10,000	.....	.....	5,000
2	Kewanee Co-op've C ¹ Co.	do	11,808	.....	11,308	.....	.....	500
3	Herdien Coal Co.	Galva	11,300	.....	10,800	.....	.....	500
4	Fred Kenady	Cambridge ..	4,174	.....	2,774	.....	.....	1,400
5	Bates Bros.	Kewanee	3,400	.....	3,000	.....	.....	400
6	Wm. G. Kay	Atkinson	2,860	.....	2,260	.....	.....	600
7	Ben Price	Kewanee	2,544	.....	2,504	.....	.....	40
8	Mat Atkinson	do	2,480	.....	2,480	.....	.....	.....
9	Ab. Hodgett	do	2,400	.....	2,400	.....	.....	.....
10	Dixon & Martin	do	2,020	.....	2,020	.....	.....	.....
11	Henry Rumla	Atkinson	1,800	.....	1,320	.....	.....	480
12	Ralph Todd & Son	Kewanee	1,800	.....	1,800	.....	.....	.....
13	Emil Ahlgren	do	1,680	.....	1,400	.....	.....	280
14	Robert Kay	Briar Bluff ..	1,600	.....	1,600	.....	.....	.....
15	Charles Stiner	Atkinson	1,400	.....	1,200	.....	.....	200
16	John Mowbray	do	784	.....	784	.....	.....	.....
17	Max Groy	Kewanee	720	.....	720	.....	.....	.....
18	North Main Coal Co.	do	600	.....	500	.....	.....	100
19	J. W. Kershaw	Briar Bluff ..	600	.....	600	.....	.....	.....
20	P. Maloen & Son	Kewanee	600	.....	600	.....	.....	.....
21	Ted Carter	do	480	.....	480	.....	.....	.....
22	Thos. Carter & Son	do	380	.....	380	.....	.....	.....
23	R. E. Maloen	do	360	.....	360	.....	.....	.....
24	Joseph Stanley	do	360	.....	360	.....	.....	.....
25	John McCaffrey	do	320	.....	240	.....	.....	80
26	Richard Golden	do	180	.....	180	.....	.....	.....
27	Lamb & Tharp	do	160	.....	160	.....	.....	.....
28	John Woodbury	Green River..	120	.....	120	.....	.....	.....
Totals			71,930	.....	62,350	.....	.....	9,580
Totals—31 mines ..			130,663	.....	106,033	.....	100	24,530

Mines in 1902, 35.

New mines, 3.

Abandoned mines, 7.

Mines in 1903, 31.

Henry County—Second District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$51,920	55	21	76	32,450	6,500	500	280	39,450	\$0 65	200	.....	2	1
26,190	35	5	40	11,851	3,537	500	270	15,888	80	.....	.....	.....	2
6,964	12	3	15	2,395	1,000	.....	150	3,395	75	200	.....	.....	3
<u>\$55,074</u>	<u>102</u>	<u>29</u>	<u>131</u>	<u>46,696</u>	<u>11,037</u>	<u>1,000</u>	<u>233</u>	<u>58,733</u>	<u>\$0 74*</u>	<u>400</u>	<u>.....</u>	<u>.....</u>	<u>2</u>
\$26,250	22	4	26	.....	8,000	7,000	249	15,000	\$0 65	.....	.....	.....	1
22,868	16	3	19	.....	11,458	350	300	11,808	1 12 $\frac{1}{2}$	.....	.....	.....	2
21,094	27	4	31	.....	10,900	400	250	11,300	1 04	.....	.....	.....	3
9,028	6	4	10	.....	3,874	300	245	4,174	90	195	.....	.....	4
6,200	8	1	9	.....	3,250	150	250	3,400	1 12 $\frac{1}{2}$	.....	.....	.....	5
5,950	7	2	9	.....	2,660	200	200	2,860	1 50	.....	.....	.....	6
5,028	6	1	7	.....	2,544	.....	250	2,544	1 12 $\frac{1}{2}$	.....	.....	.....	7
4,960	6	1	7	.....	2,400	80	200	2,480	1 12 $\frac{1}{2}$	.....	.....	.....	8
4,800	6	1	7	.....	2,400	.....	280	2,400	1 12 $\frac{1}{2}$	.....	.....	.....	9
4,040	6	1	7	.....	2,020	.....	200	2,020	1 12 $\frac{1}{2}$	.....	.....	.....	10
3,540	7	2	9	.....	1,600	200	200	1,800	1 50	.....	.....	.....	11
3,600	6	.....	6	.....	1,800	.....	200	1,800	1 12 $\frac{1}{2}$	.....	.....	.....	12
2,940	5	1	6	.....	1,680	.....	180	1,680	1 12 $\frac{1}{2}$	.....	.....	.....	13
2,800	5	.....	5	.....	1,600	.....	180	1,600	75	.....	.....	.....	14
3,100	5	2	7	.....	1,200	200	200	1,400	1 50	.....	.....	.....	15
1,176	2	.....	2	.....	784	.....	150	784	1 00	.....	.....	.....	16
1,440	4	1	5	.....	720	.....	125	720	1 12 $\frac{1}{2}$	.....	.....	.....	17
1,100	3	1	4	.....	500	100	80	600	65	.....	.....	.....	18
1,050	4	.....	4	.....	600	.....	100	600	1 00	5	.....	.....	19
1,200	3	1	4	.....	600	.....	120	600	1 12 $\frac{1}{2}$	.....	.....	.....	20
960	2	.....	2	.....	480	.....	155	480	1 12 $\frac{1}{2}$	.....	.....	.....	21
760	2	.....	2	.....	380	.....	140	380	1 12 $\frac{1}{2}$	.....	.....	.....	22
720	1	.....	1	.....	360	.....	220	360	1 12 $\frac{1}{2}$	.....	.....	.....	23
720	2	.....	2	.....	360	.....	80	360	1 12 $\frac{1}{2}$	.....	.....	.....	24
440	6	4	10	.....	320	.....	32	320	66	40	.....	.....	25
360	2	.....	2	.....	180	.....	60	180	1 12 $\frac{1}{2}$	.....	.....	.....	26
320	2	.....	2	.....	160	.....	50	160	1 12 $\frac{1}{2}$	.....	.....	.....	27
210	2	.....	2	.....	120	.....	50	120	1 00	.....	.....	.....	28
<u>\$136,652</u>	<u>173</u>	<u>34</u>	<u>207</u>	<u>.....</u>	<u>62,950</u>	<u>8,980</u>	<u>200</u>	<u>71,930</u>	<u>\$1 01</u>	<u>240</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>
<u>\$221,726</u>	<u>275</u>	<u>63</u>	<u>338</u>	<u>46,696</u>	<u>73,987</u>	<u>9,990</u>	<u>233</u>	<u>130,663</u>	<u>\$0 74</u>	<u>640</u>	<u>.....</u>	<u>.....</u>	<u>2</u>

Average for two contract prices.

Knox County—Second District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Etherly Coal Co., 2.....	Etherly.....	30,350	8,232	17,496	.....	.....	4,622
2	Yates City Coal Co., 1....	Yates City....	4,576	93	3,512	72	552	347
3	Rodell & Mitchell.....	Wataga.....	4,447	.....	3,987	.....	.....	460
Totals			39,373	8,325	24,995	72	552	5,429
LOCAL MINES.								
1	Reed & Pendergast.....	Soperville.....	3,640	.....	3,280	.....	.....	360
2	G. W. Essex.....	do.....	3,500	.....	3,200	.....	.....	300
3	Galva Coal Co., 1.....	Wataga.....	3,050	.....	2,700	.....	.....	350
4	George Clifford.....	Oneida.....	2,908	.....	2,908	.....	.....	.....
5	Steve McGovern.....	do.....	2,536	.....	2,536	.....	.....	.....
6	Chas. Simpson.....	Wataga.....	2,132	.....	2,132	.....	.....	.....
7	John Walsh.....	Truro.....	2,120	.....	2,120	.....	.....	.....
8	Jacob Crutz.....	Yates City.....	2,040	.....	1,840	.....	.....	200
9	N. C. Anderson.....	Knoxville.....	1,946	.....	1,882	.....	.....	64
10	Martin Isaacson.....	Wataga.....	1,904	.....	1,854	.....	.....	50
11	Gus Dalton.....	Yates City.....	1,800	.....	1,600	.....	.....	200
12	Bowman Bros.....	do.....	1,640	.....	1,160	.....	.....	480
13	Hamilton Taylor.....	Wataga.....	1,500	.....	1,500	.....	.....	.....
14	W. F. Moore.....	Victoria.....	1,200	.....	1,200	.....	.....	.....
15	T. B. McGovern.....	Oneida.....	1,200	.....	1,200	.....	.....	.....
16	Lundeen & Nelson.....	Knoxville.....	1,200	.....	1,090	.....	.....	120
17	Edward Rensted.....	Victoria.....	1,112	.....	1,112	.....	.....	.....
18	August Peterson.....	Soperville.....	1,010	.....	960	.....	.....	50
19	Nodene & Son.....	Wataga.....	800	.....	800	.....	.....	.....
20	John Todd.....	Victoria.....	600	.....	600	.....	.....	.....
21	George Lane.....	Knoxville.....	480	.....	480	.....	.....	.....
22	Ambrose King.....	Victoria.....	480	.....	480	.....	.....	.....
23	Wm. Woodward.....	Galesburg.....	450	.....	450	.....	.....	.....
24	James Nelson.....	Knoxville.....	440	.....	440	.....	.....	.....
25	Wm. M. Welker.....	Farmington.....	426	.....	332	.....	.....	94
26	Cook & Dymansites.....	Etherly.....	400	.....	400	.....	.....	.....
27	N. A. Anderson.....	Wataga.....	400	.....	400	.....	.....	.....
28	Chas. Morgan.....	Oneida.....	300	.....	300	.....	.....	.....
29	Claus Bengston.....	Wataga.....	208	.....	208	.....	.....	.....
30	William Nelson.....	Victoria.....	200	.....	200	.....	.....	.....
34	Product from four mines in Cedar township.....	Abingdon.....	2,800	.....	2,800	.....	.....	.....
38	Product from four mines in Copley township.....	Victoria.....	780	.....	780	.....	.....	.....
Totals			45,202	.....	42,934	.....	.....	2,268
Totals—41 mines..			84,575	8,325	67,929	72	552	7,697

Mines in 1902, 35.

New mines, 11.

Abandoned mines, 5.

Mines in 1903, 41.

Knox County—Second District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$43,012	50	17	67	30,130	20	200	1244	30,350	\$0 65	.....	1	.....	1
7,309	18	8	26	2,604	1,672	300	130	4,576	62	300	.....	.....	2
6,609	12	3	15	2,055	2,232	160	240	4,447	93	.....	.....	.....	3
<u>\$56,930</u>	<u>80</u>	<u>28</u>	<u>108</u>	<u>34,789</u>	<u>3,924</u>	<u>660</u>	<u>205</u>	<u>39,373</u>	<u>\$0.678*</u>	<u>300</u>	<u>1</u>	<u>.....</u>	<u>.....</u>
\$6,740	8	2	10	.....	3,560	140	260	3,640	\$1 00	200	.....	.....	1
6,550	12	3	15	.....	3,200	300	150	3,500	1 00	160	.....	.....	2
4,900	5	1	6	.....	2,700	350	270	3,050	1 00	.....	.....	.....	3
5,816	10	2	12	.....	2,908	.....	200	2,908	1 00	.....	.....	.....	4
4,438	6	1	7	.....	2,536	.....	200	2,536	1 00	.....	.....	.....	5
3,198	5	1	6	.....	2,132	.....	240	2,132	87 ¹ / ₂	.....	.....	.....	6
3,180	5	1	6	.....	2,120	.....	230	2,120	87 ¹ / ₂	.....	.....	.....	7
3,780	5	1	6	.....	1,840	200	260	2,040	1 00	.....	.....	.....	8
3,796	5	1	6	.....	1,882	64	208	1,946	1 25	.....	.....	.....	9
3,269	6	1	7	.....	1,854	50	160	1,904	1 00	.....	.....	.....	10
3,300	5	1	6	.....	1,600	200	180	1,800	1 00	.....	.....	.....	11
2,270	3	1	4	.....	1,440	200	260	1,640	1 00	.....	.....	.....	12
2,250	4	1	5	.....	1,500	.....	220	1,500	90	.....	.....	.....	13
2,100	4	1	5	.....	1,200	.....	185	1,200	1 00	.....	.....	.....	14
1,800	4	1	5	.....	1,200	.....	150	1,200	1 00	.....	.....	.....	15
2,190	4	1	5	.....	1,200	.....	160	1,200	1 25	.....	.....	.....	16
1,946	5	1	6	.....	1,112	.....	170	1,112	1 00	.....	.....	.....	17
1,945	6	1	7	.....	960	50	72	1,010	1 00	.....	.....	.....	18
1,400	3	.....	3	.....	800	.....	150	800	1 00	.....	.....	.....	19
1,050	3	.....	3	.....	600	.....	140	600	1 00	.....	.....	.....	20
960	3	.....	3	.....	480	.....	150	480	1 25	.....	.....	.....	21
840	3	.....	3	.....	480	.....	150	480	1 00	.....	.....	.....	22
787	3	1	4	.....	450	.....	70	450	1 00	.....	.....	.....	23
880	2	1	3	.....	440	.....	180	440	1 25	.....	.....	.....	24
569	2	.....	2	.....	426	.....	140	426	75	.....	.....	.....	25
600	3	.....	3	.....	400	.....	70	400	87 ¹ / ₂	.....	.....	.....	26
600	2	.....	2	.....	400	.....	120	400	1 00	.....	.....	.....	27
525	2	.....	2	.....	300	.....	100	300	1 00	.....	.....	.....	28
312	2	.....	2	.....	208	.....	80	208	1 00	.....	.....	.....	29
300	2	.....	2	.....	200	.....	80	200	1 00	.....	.....	.....	30
5,880	12	.....	12	.....	2,800	.....	150	2,800	1 25	.....	.....	.....	34
1,170	6	.....	6	.....	780	.....	80	780	75	.....	.....	.....	38
<u>\$79,341</u>	<u>148</u>	<u>23</u>	<u>171</u>	<u>.....</u>	<u>43,648</u>	<u>1,554</u>	<u>184</u>	<u>45,202</u>	<u>\$1 02</u>	<u>360</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>
<u>\$136,271</u>	<u>228</u>	<u>51</u>	<u>279</u>	<u>34,789</u>	<u>47,572</u>	<u>2,214</u>	<u>265</u>	<u>84,575</u>	<u>.....</u>	<u>660</u>	<u>• 1</u>	<u>.....</u>	<u>.....</u>

* Average of two contract prices.

Marshall County—Second District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Devlin Coal Co., 1.....	Toluca	336,047	100,454	188,475	.....	.....	47,118
2	Wenona Coal Co., 1.....	Wenona	113,427	.....	84,765	.....	3,707	24,955
3	Marquette Coal Co.....	Sparland	10,529	1,362	7,807	.....	.....	1,360
Totals.....			460,003	101,816	281,047	.....	3,707	73,433
LOCAL MINES.								
1	R. G. Ingram.....	Sparland	1,500	.....	1,500	.....	.....	.....
2	Frank A. Barr	do	640	.....	640	.....	.....	.....
3	Ed. Bennett.....	Chillicothe	600	.....	600	.....	.....	.....
4	Cyrus Wright	Sparland	520	.....	520	.....	.....	.....
5	W. E. Frisbie.....	do	410	.....	410	.....	.....	.....
6	William Horrocks, Jr.....	Henry	286	.....	286	.....	.....	.....
7	William Bough.....	do	280	.....	280	.....	.....	.....
8	Bernard Lanning	Sparland	208	.....	208	.....	.....	.....
9	James Medearis.....	Henry	200	.....	200	.....	.....	.....
10	Louis Nighswonger.....	Sparland	192	.....	192	.....	.....	.....
11	Joseph Caley.....	Henry	120	.....	120	.....	.....	.....
12	William Lopeman.....	do	120	.....	120	.....	.....	.....
Totals.....			5,076	.....	5,076	.....	.....	.....
Totals—15 mines..			465,079	101,816	286,123	.....	3,707	73,433

Mines in 1902, 17.

Abandoned mines, 2.

Mines in 1903, 15.

Marshall County—Second District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.	
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$447,166	469	135	604	234,789	5,487	14,841	278	331,062	\$0 76	.....	11	1
195,888	165	71	236	97,181	8,621	7,625	264	113,427	76	.....	6	2
18,043	23	14	37	4,969	4,699	961	233	10,529	76	.....	.....	3
<u>\$661,097</u>	<u>657</u>	<u>220</u>	<u>877</u>	<u>417,869</u>	<u>18,707</u>	<u>23,427</u>	<u>258</u>	<u>455,018</u>	<u>\$0.775*</u>	<u>.....</u>	<u>16</u>	
\$2,250	4	.....	4	.....	1,500	.....	230	1,500	\$1 00	20	.....	1
960	5	.....	5	.....	640	.....	140	640	1 00	50	.....	2
900	4	.....	4	.....	600	.....	100	600	1 00	50	.....	3
780	3	.....	3	.....	520	.....	130	520	1 00	12	.....	4
615	3	.....	3	.....	410	.....	120	410	1 00	22	.....	5
572	2	.....	2	.....	286	.....	86	286	1 00	15	.....	6
420	2	.....	2	.....	280	.....	160	280	1 00	7	.....	7
260	1	.....	1	.....	208	.....	200	208	75	1	.....	8
400	1	.....	1	.....	200	.....	80	200	1 00	10	.....	9
240	2	.....	2	.....	192	.....	60	192	75	8	.....	10
300	2	.....	2	.....	120	.....	90	120	1 25	.....	.....	11
210	1	.....	1	.....	120	.....	100	120	1 00	8	.....	12
<u>\$7,907</u>	<u>30</u>	<u>.....</u>	<u>30</u>	<u>.....</u>	<u>5,976</u>	<u>.....</u>	<u>148</u>	<u>5,076</u>	<u>\$0 99</u>	<u>203</u>	<u>.....</u>	<u>.....</u>
<u>\$669,004</u>	<u>687</u>	<u>220</u>	<u>907</u>	<u>417,869</u>	<u>23,783</u>	<u>23,427</u>	<u>.....</u>	<u>460,094</u>	<u>.....</u>	<u>203</u>	<u>.....</u>	<u>16</u>

* Average of two contract prices.

Mercer County—Second District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Empire Coal Co., 3.....	Gilchrist.....	211,218	.....	133,962	.....	4,092	73,164
2	Coal Valley Mining Co., 2.....	Sherrard.....	164,062	29,952	86,596	.....	2,712	44,802
3	Alden Coal Co., 2.....	Wanlock.....	158,070	9,150	86,080	.....	6,659	56,181
4	Coal Valley Mining Co., 1.....	Cable.....	86,812	990	53,164	.....	4,244	23,414
5	Lilliman & Co.....	Cable.....	6,400	.....	6,000	.....	.....	400
6	B. B. Peterson.....	Cable.....	2,400	.....	1,800	.....	.....	600
Totals			628,962	40,092	372,602	.....	17,707	198,561
LOCAL MINES.								
1	Peter Docherty	Preémption ..	4,100	.....	3,800	.....	.....	300
2	Arthur Jones	Viola.....	2,940	.....	2,640	.....	.....	300
3	W. P. Williams	Aledo	2,448	.....	2,448	.....	.....	.....
4	Wm. Penman	Preemption ..	2,400	.....	2,400	.....	.....	.....
5	G. W. Martin	Laoc.....	2,250	.....	2,250	.....	.....	.....
6	Joseph Williams	Preemption ..	2,000	.....	2,000	.....	.....	.....
7	J. B. Martin.....	Laoc.....	1,900	.....	1,900	.....	.....	.....
8	S. J. Young.....	Griffin.....	620	.....	580	.....	40	40
9	M. Beers & Son.....	Cable.....	250	.....	200	.....	.....	50
10	U. S. Clay Mfg. Co.....	Griffin.....	200	.....	200	.....	.....	.....
Totals			19,108	.....	18,418	.....	.....	690
Totals—16 mines..			648,070	40,092	391,020	.....	17,707	199,251

Mines in 1902, 17.

New mines, 1.

Abandoned mines, 2.

Mines in 1903, 16.

Mercer County—Second District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employés	Total.	Tons loaded on cars for ship- ment and sup- plied to loco- motives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non- fatal.
\$256,828	184	87	271	207,080	2,384	1,754	256	211,218	\$0 60	11,438	1	....
246,425	121	131	251	157,480	3,022	3,580	263	164,062	60	8,561	....	3
194,266	148	78	226	149,579	1,892	6,599	252	158,070	60	9,813	....	1
132,623	63	48	111	83,610	80	3,122	269	86,812	60	2,507	....	3
9,160	10	2	12	5,100	1,000	300	230	6,400	60	150	....	5
3,000	4	1	5	1,200	1,000	200	250	2,400	60	80	....	6
\$842,302	530	346	876	604,049	9,378	15,535	253	628,962	\$0 615*	32,549	1	7
\$5,850	6	1	7	.....	3,900	200	200	4,100	\$0 87½	220	....	1
4,110	6	1	7	.....	2,740	200	175	2,940	87½	135	....	2
3,672	6	1	7	.....	2,488	.....	180	2,448	87½	145	....	3
3,600	4	1	5	.....	2,400	.....	172	2,400	87½	140	....	4
3,375	4	1	5	.....	2,250	.....	200	2,250	87½	140	....	5
3,000	4	1	5	.....	2,000	.....	173	2,000	87½	75	....	6
2,850	4	1	5	.....	1,900	.....	175	1,900	87½	80	....	7
1,045	3	1	4	.....	620	.....	130	620	1 00	35	....	8
537	2	.....	2	.....	250	.....	50	250	1 00	.....	....	9
350	8	1	9	.....	.....	200	15	200	87½	10	....	10
\$28,389	47	9	56	.....	18,508	600	176	19,108	\$0 88	980	....	....
\$870,691	577	355	932	604,049	27,886	16,135	.....	648,070	.....	33,529	1	7

* Average of two contract prices.

Rock Island County—Second District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Silvis Mining Co., 2.....	Carbon Cliff..	35,210	.....	27,386	.....	.....	7,824
	Totals.....	.....	35,210	.....	27,386	.....	.....	7,824
LOCAL MINES.								
1	J. J. Pryce & Son	Coal Valley...	21,254	.....	17,004	.....	.....	4,250
2	Sackville Bros.....	.. do	12,000	.....	8,710	.....	.....	3,290
3	John Hynd & Sons.....	Loding	7,714	.....	6,588	.....	.....	1,126
4	Stoddard & Summerson..	Coal Valley...	2,809	.....	2,809	.....	.....	.....
5	Loding Bros.....	Loding	2,360	.....	1,360	.....	.....	400
6	Wm. Parker.....	Milan	1,645	.....	1,600	.....	.....	45
7	Stone Bros.....	Carbon Cliff..	880	.....	880	.....	.....	.....
8	Gribbin & Fields.....	Loding	300	.....	300	.....	.....	.....
9	Black Diamond Coal Co..	Coal Valley...	274	.....	224	.....	.....	50
10	D. L. Edwards.....	.. do	230	.....	230	.....	.....	.....
11	Z. H. Wynn.....	.. do	200	.....	200	.....	.....	.....
12	Fred Vonach.....	Hampton	200	.....	200	.....	.....	.....
13	Grothe Bros.....	Moline	184	.....	184	.....	.....	.....
14	Guckert Bros.....	Hampton	160	.....	160	.....	.....	.....
15	Wm. Wooley.....	Coal Valley...	80	.....	80	.....	.....	.....
16	John Summerson	.. do	200	.....	200	.....	.....	.....
	Totals.....	.....	50,490	.....	41,329	.....	.....	9,161
	Totals—17 mines..	.....	85,700	.....	68,715	.....	.....	16,985

Mines in 1902, 16.

New mines, 1.

Mines in 1903, 17

Rock Island County—Second District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mines.					Number of fatal.	Number of non-fatal.	
\$46,556	37	17	54	34,085	325	800	263	35,210	\$0 60	1,271	1	1	1
\$46,556	37	17	54	34,085	325	800	263	35,210	\$0.615	1,271	1	1	
\$33,582	24	6	30	.....	20,954	300	182	21,254	\$0 60	1,100	.....	1	1
17,759	15	8	23	.....	11,840	160	205	12,000	60	750	.....	2	2
12,751	10	3	13	.....	7,514	200	300	7,714	80	350	.....	3	3
5,618	5	1	6	.....	2,809	.....	160	2,809	80	70	.....	4	4
4,120	4	1	5	.....	2,185	175	225	2,360	60	100	.....	5	5
2,822	4	1	5	.....	1,500	145	220	1,645	70	60	.....	6	6
1,760	3	1	4	.....	880	.....	175	880	1 00	20	.....	7	7
600	2	1	3	.....	300	.....	90	300	1 00	30	.....	8	8
361	5	1	6	.....	254	20	25	274	87½	10	.....	9	9
460	1	.....	1	.....	230	.....	170	230	1 00	.....	.....	10	10
350	2	1	3	.....	200	.....	80	200	1 00	12	.....	11	11
400	1	.....	1	.....	200	.....	100	200	1 00	.....	.....	12	12
368	2	.....	2	.....	184	.....	60	184	1 00	4	.....	13	13
320	2	.....	2	.....	160	.....	45	160	1 00	.....	.....	14	14
140	1	.....	1	.....	80	.....	50	80	1 00	6	.....	15	15
300	2	.....	2	.....	200	.....	70	200	1 00	6	.....	16	16
\$91,711	83	24	107	.....	49,490	1,000	193	50,490	\$0 64	2,518	.....	1	
\$123,267	120	41	161	34,085	49,815	1,800	263	85,700	.....	3,789	1	2	

* Average of two contract prices.

Stark County—Second District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Wyoming Coal Co., 1.....	Wyoming.....	11,000	2,000	6,000	.....	1,000	2,000
2	George R. Watson.....	.. do	5,958	2,600	1,400	.....	.....	1,958
Totals			16,958	4,600	7,400	.....	1,000	3,958
LOCAL MINES.								
1	J. M. Robinson	Elmira.....	2,880	.....	2,600	.....	.....	280
2	S. French	Bradford	2,800	.....	2,400	.....	.....	400
3	Robinson & Watson	Wyoming.....	2,630	.....	2,686	.....	.....	24
4	John Scott	Modena	1,940	.....	1,872	.....	.....	68
5	James Higbee	Wyoming.....	1,640	.....	1,560	.....	.....	80
6	Isalah King	.. do	1,456	.....	1,406	.....	.....	50
7	Newton & Howard	Bradford	1,412	.....	1,312	.....	.....	100
8	Ben Smith	Modena	1,400	.....	1,400	.....	.....	.....
9	John Catton	West Jersey..	1,320	.....	1,320	.....	.....	.....
10	W. C. Rennick	Modena	800	.....	800	.....	.....	.....
11	Joseph Goode	Lombardville	800	.....	800	.....	.....	.....
12	Chas. Montooth	Bradford	650	.....	600	.....	.....	80
13	Bert Balentine	Toulon	680	.....	600	.....	.....	80
14	Foster Coulson	Wyoming.....	640	.....	640	.....	.....	.....
15	Jas. K. Fuller	Modena	440	.....	440	.....	.....	.....
16	Fred Charlston	Wyoming.....	250	.....	250	.....	.....	.....
17	Harry Storey	.. do	180	.....	180	.....	.....	.....
18	John Price	.. do	168	.....	168	.....	.....	.....
19	John Thurston	.. do	140	.....	140	.....	.....	.....
20	F. L. Keim.....	Lafayette....	102	.....	102	.....	.....	.....
Totals			22,448	.....	21,286	.....	.....	1,162
Totals—22 mines..			39,406	4,600	28,686	.....	1,000	5,120

Mines in 1902, 21.

New mines, 6.

Abandoned mines, 5.

Mines in 1903, 22.

Stark County—Second District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for ship- ment and sup- plied to loco- motives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal	
\$16,000	35	8	43	9,600	1,000	400	160	11,000	\$0 75	400	1	....	1
7,679	12	4	16	4,040	1,518	400	200	5,958	80	148	....	1	2
\$23,679	47	12	59	13,640	2,518	800	180	16,958	\$0 77*	548	1	1	
\$4,690	6	1	7	.....	2,830	50	280	2,880	\$1 00	50	.....	.....	1
5,200	9	1	10	.....	2,800	.....	200	2,800	1 00	94	.....	.....	2
4,677	5	1	6	.....	2,640	50	260	2,690	1 00	50	.....	.....	3
3,327	4	1	5	.....	1,940	.....	220	1,940	1 00	125	.....	.....	4
2,770	4	1	5	.....	1,600	40	220	1,640	1 00	35	.....	.....	5
2,837	4	1	5	.....	1,456	.....	142	1,456	1 00	37	.....	.....	6
2,724	4	1	5	.....	1,412	.....	220	1,412	1 00	40	.....	.....	7
2,100	4	1	5	.....	1,400	.....	170	1,400	1 00	40	.....	.....	8
2,640	3	1	4	.....	1,320	.....	260	1,320	1 00	38	.....	.....	9
1,200	2	1	3	.....	800	.....	200	800	1 00	25	.....	.....	10
1,800	3	1	4	.....	800	.....	180	800	1 50	22	.....	.....	11
1,240	2	1	3	.....	680	.....	180	680	1 00	50	.....	.....	12
940	2	.....	2	.....	680	.....	100	680	1 00	12	.....	.....	13
960	.....	.....	.....	.....	640	.....	200	640	1 00	10	.....	.....	14
660	2	.....	2	.....	440	.....	130	440	1 00	6	.....	.....	15
420	2	.....	2	.....	280	.....	100	280	1 00	4	.....	.....	16
270	2	.....	2	.....	180	.....	80	180	1 00	2	.....	.....	17
252	2	.....	2	.....	168	.....	70	168	1 00	4	.....	.....	18
210	2	1	3	.....	140	.....	60	140	1 00	.....	.....	.....	19
153	2	.....	2	.....	102	.....	50	102	1 00	.....	.....	.....	20
\$39,070	66	13	79	.....	22,308	140	190	22,445	\$1 00	644	.....	.....	
\$62,749	113	25	138	13,640	24,826	940	180	39,406	.....	1,192	1	1	

* Average of two contract prices.

Warren County—Second District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	H. J. Rohr	Alexis	3,986		3,506			480
2	Gilmore & McKahn	.. do	2,040		2,000			40
3	John Simcock	.. do	1,200		1,200			
4	J. C. Lewis	Roseville	1,200		1,200			
5	W. W. Gildroy	Monmouth	940		940			
6	Murphy & Redmond	.. do	640		640			
7	John Selkirk	.. do	500		500			
8	Willis Clayton	Avon	480		480			
9	Thomas Caldwell	.. do	440		440			
10	Thos. Wearmouth	Youngstown	400		400			
11	Chas. Miller	.. do	360		360			
12	Thos. Smith	Avon	320		320			
13	Thos. Lee	Youngstown	300		300			
14	Henry Fullerton	Avon	280		280			
15	J. G. Kidd	Roseville	280		280			
16	Andrew Welch	Monmouth	240		240			
17	Thos. E. Delaney	Avon	192		192			
18	Amos Singleton	.. do	148		148			
19	Joseph Simpson	Swan Creek	40		40			
Totals			13,986		13,466			520

Mines in 1902, 17.

New mines, 2.

Mines in 1903, 19.

Warren County--Second District--Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$5,451	5	1	6	.....	3,786	200	280	3,986	\$0 75	120	.....	.....	1
3,020	4	1	5	.....	1,840	200	200	2,040	75	120	.....	.....	2
1,800	3	1	4	.....	1,200	.....	225	1,200	75	40	.....	.....	3
3,900	5	1	6	.....	1,200	.....	182	1,200	1 75	.....	.....	.....	4
2,350	4	1	5	.....	940	.....	160	940	1 00	10	.....	.....	5
1,280	3	1	4	.....	640	.....	160	640	1 25	.....	.....	.....	6
1,000	2	1	3	.....	500	.....	160	500	1 25	.....	.....	.....	7
960	2	1	3	.....	480	.....	150	480	1 50	.....	.....	.....	8
1,160	2	.....	2	.....	440	.....	150	440	1 75	.....	.....	.....	9
1,000	2	.....	2	.....	400	.....	150	400	1 50	.....	.....	.....	10
900	1	.....	1	.....	350	.....	250	360	1 50	.....	.....	.....	11
800	1	.....	1	.....	320	.....	230	320	1 75	.....	.....	.....	12
750	1	.....	1	.....	300	.....	200	300	1 75	.....	.....	.....	13
700	1	.....	1	.....	280	.....	180	280	1 75	.....	.....	.....	14
700	1	.....	1	.....	280	.....	120	280	1 50	.....	.....	.....	15
600	2	.....	2	.....	240	.....	144	240	1 50	.....	.....	.....	16
480	2	.....	2	.....	192	.....	100	192	1 50	.....	.....	.....	17
370	2	.....	2	.....	148	.....	100	148	1 50	.....	.....	.....	18
100	1	.....	1	.....	40	.....	60	40	1 50	.....	.....	.....	19
\$27,261	45	7	52	.....	13,586	400	175	13,986	\$1 10	290	.....	.....	.....

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bureau	7	1,751,929	56,979	1,314,527	97,148	23,095	119,400	140,780	\$2,384,085
Henry	3	58,733	.....	43,683	.....	100	14,950	.....	85,074
Knox	3	39,373	8,325	24,995	72	552	5,429	.....	56,930
Marshall	3	460,003	101,816	281,047	.....	3,707	57,631	15,802	661,097
Mercer	6	628,962	40,092	372,602	.....	17,707	98,302	100,259	842,302
Rock Island ..	1	35,210	.....	27,386	.....	.....	7,824	.....	46,556
Stark	2	16,958	4,600	7,400	.....	1,000	3,958	.....	23,679
Totals and averages	25	2,991,168	211,812	2,071,640	97,220	46,161	307,494	256,841	\$4,099,723

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bureau	13	26,373	.....	26,133	.....	.....	240	.....	\$ 48,976
Henry	28	71,930	.....	62,350	.....	.....	9,580	.....	136,652
Knox	38	45,202	.....	42,934	.....	.....	2,268	.....	79,341
Marshall	12	5,076	.....	5,076	.....	.....	.....	.....	7,907
Mercer	10	19,108	.....	18,418	.....	.....	690	.....	28,389
Rock Island ..	16	50,490	.....	41,329	.....	.....	9,161	.....	81,711
Stark	20	22,448	.....	21,286	.....	.....	1,162	.....	39,070
Warren	19	13,986	.....	13,466	.....	.....	520	.....	27,261
Totals and averages	156	254,613	.....	230,992	.....	.....	23,621	.....	\$449,307
Total district —all mines..	181	3,245,781	211,812	2,302,632	97,220	46,161	331,115	256,841	\$4,549,030

Second District—1903—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties	Number non-fatal cas u s.
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
2,952	1,015	3,967	1,648,600	15,939	26,463	60,927	264	1,751,929	.....	\$0.76	.....	.....	7	34
102	29	131	46,696	.....	11,037	1,000	233	59,733	.....	0.74	.....	400	..	2
80	28	108	33,869	920	3,924	660	205	39,373	.....	0.678	.....	300	1	..
657	220	877	388,690	31,179	18,707	23,427	258	455,018	4,985	0.76	*	.....	..	16
530	346	876	602,426	1,623	9,378	15,535	253	628,962	.....	0.615	.....	32,549	1	7
37	17	54	34,085	.....	325	800	262	35,210	.....	0.60	.....	1,271	1	1
47	12	59	13,640	.....	2,518	800	180	16,958	.....	0.767	.....	548	1	1
4,405	1,667	6,072	2,766,006	49,661	72,352	103,149	243	2,986,183	4,985	\$0.723	.....	35,063	11	61

Second District—1903—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties.	Number non-fatal cas't's.
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
71	15	86	.....	.....	26,133	240	192	26,373	.....	\$0.97	.....	370	..	..
173	34	207	.....	.....	62,950	8,980	141	71,930	.....	1.01	.....	240	..	..
148	23	171	.....	.....	43,648	1,554	184	45,202	.....	1.015	.....	360	..	..
30	.....	30	.....	.....	5,076	.....	148	5,076	.....	0.986	.....	203	..	..
47	9	56	.....	.....	18,503	600	141	19,108	.....	0.88	.....	950	..	..
83	24	107	.....	.....	49,490	1,000	109	50,490	.....	0.635	.....	2,518	..	1
66	13	79	.....	.....	22,309	140	190	22,448	.....	1.00	.....	644	..	..
45	7	52	.....	.....	13,586	400	165	13,986	.....	1.10	.....	290	..	..
663	125	788	.....	.....	241,699	12,914	161	254,613	.....	\$0.93	.....	5,605	..	1
5,068	1,792	6,860	2,766,006	49,661	314,051	116,063	.....	3,240,796	4,985	.....	.....	40,673	11	62

* Day work.

THIRD INSPECTION DISTRICT—1903.

TWENTIETH ANNUAL REPORT.

Counties: Cass, Fulton, Hancock, McDonough, Menard, Peoria, Schuyler, Tazewell.

JAMES TAYLOR, *Inspector*, Peoria.

HON. DAVID ROSS, *Secretary*,

State Bureau of Labor Statistics, Springfield, Illinois.

SIR:—Complying with section 12 of an act of the General Assembly, I have the honor to submit the twentieth annual report of the coal mines located in the third inspection district. The coal producing counties of this district are Cass, Fulton, Hancock, McDonough, Menard, Peoria, Schuyler, and Tazewell.

The tabular part of the report gives the number of tons of coal mined; the number of kegs of powder consumed; the number of boys over 14 years of age, working in the mines, also the number of miners and other employés; the number of shipping and local mines; the aggregate value of the total product at the mines; the thickness of the coal seams, with the geological number and the depth of the seams below the surface; the number of casualties, fatal and non-fatal; the number of mines, old, new and abandoned; the total tons of the different grades of coal produced and the number of days of active operation during the year.

The total number of mines in the district is 243, of this number 50 are shipping mines and 193 are local mines. 25 new mines have been opened during the year. Of the 50 shipping mines, Fulton county has 16, Hancock 1, McDonough 1, Menard 8, Peoria 19, Tazewell 5.

The total number of employés in and about the mines was 4,363, of whom 3,198 are miners; 607 day men, working underground; 454 employed above ground, and 104 boys employed in and about the mines.

Of the 25 new mines in the district 6 are in Fulton county, 1 in Hancock, 11 in McDonough, 3 in Menard, 2 in Peoria and 2 in Tazewell. There have been 23 mines abandoned during the year, 10 in Fulton county, 1 in Hancock, 2 in McDonough, 5 in Peoria, and 5 in Schuyler.

The following table shows the number of shipping and local mines in each county, and the total tons produced:

COUNTY.	SHIPPING MINES.		LOCAL MINES	
	Number.	Total tons.	Number.	Total tons.
Cass.....			2	2,807
Fulton	16	966,721	47	69,776
Hancock	1	7,700	5	3,640
McDonough	1	14,428	55	28,966
Menard	8	476,409	8	15,919
Peoria.....	19	734,987	50	185,729
Schuyler.....			15	15,734
Tazewell.....	5	119,446	11	66,059
Totals	50	2,319,691	193	388,659

The product of all the mines in the district was 2,708,350 tons; the shipping mines supplying 86 per cent and the local mines 14 per cent.

The output by counties, showing the increase or decrease in each, is shown in the following table:

COUNTIES.	TOTAL PRODUCT OF ALL GRADES OF COAL —IN TONS.		Increase.	Decrease.
	1902	1903		
Cass.....	2,100	2,807	707	
Fulton	889,679	1,036,496	146,817	
Hancock	6,310	11,340	5,030	
McDonough	49,271	43,394		5,877
Menard	438,768	492,329	53,560	
Peoria.....	824,260	920,716	96,456	
Schuyler	18,240	15,734		2,506
Tazewell.....	184,835	185,535	700	
Totals	2,413,463	2,708,350	303,270	8,383

Increase in tons.....	303,270
Decrease in tons.....	8,383
Net increase in tons	294,887

The total number of mines in the district in 1902 was 241; the total number of employéés 4,268, and the total number of tons of coal produced was 2,413,463. For the year 1903 the total number of mines in the district was 243; the total number of employéés 4,363 and the total output of coal 2,708,350 tons. Hancock and Schuyler counties show a decrease of 8,383 tons, leaving a net increase of 294,837 tons.

LITIGATION.

April 6, 1903, I entered suit against Edward Little, Peoria, for operating his Hilliard No. 1 mine without a certificated mine manager. The court found him guilty as charged, placing his fine at \$50 and costs, which he paid.

I also secured an injunction closing Little's Hilliard No. 2 mine, until such time when he would comply with my recommendations, to place the mine in lawful condition. This injunction was in force until June 1, 1903.

DOGS EMPLOYED IN MINES FOR HAULING CARS.

In McDonough county mines 31 dogs are employed for drawing empty and loaded cars of coal to and from the mines, to the bottom of the shaft or to the mouth of the drifts.

On one of my visits to the mine of Rippetoe and Rundle, at Colchester, I was very much interested in observing the intelligence exhibited by one of these animals. The driver with his dog was returning from the bottom of the shaft, the dog drawing an empty car, on arriving at the summit of the hill, the dog, without any instruction, jumped into the car and rode with the driver down the incline to the level below, arriving at the bottom the dog jumped out of the car and pulled it up the grade on the opposite side to the working face.

I am unable to classify the different kinds of dogs that are in use at these mines. Under the head of haulage in the mines (page 127) is shown a mastif hitched to a car of coal, which it has just drawn out of the mine.

I do not esteem so highly, the value of dogs, in consideration of their mere usefulness to the miner or to the operator, as I do other domestic animals: the horse, pony and mule; yet the dog to a greater degree beyond that of any other animal, has become the humble friend and companion of man, seeming actually to have knowledge to be delighted with the joys, or, to sympathize in the sorrows, of his master. On this account it is, that he is alike "The pampered minion of royalty and half starved partaker of the beggar's crust."

POWDER EXPLOSION AT ATHENS.

In company with Richard Newsam, president of the State Mining Board, G. R. Charlton, Menard county mine inspector, Thomas Hannah, former county mine inspector, with John Garrity, mine manager and Moses Cooper, mine examiner of the Athens Coal company's mine, I made an inspection of the mine, operated by the Athens Coal Mining company, in which six miners

lost their lives on the morning of March 23, 1903, by an explosion of powder. Mr. Newsam and myself were the first to arrive at the face of the workings, where the men were killed.

Our investigation there showed that six shots had been fired in the tenth south entry, also in a cross-cut, which was being made between the ninth and tenth south entries; the latter from the tenth south entry side. Three shots had been fired in the tenth south entry and three in the cross-cut. One shot in the cross-cut had blown through into the ninth south entry.

From the testimony given by Mr. Westton it was learned that this particular shot in the cross-cut had been prepared on Friday, March 20, three days previous to the explosion; that he, Westton, had assisted Fred Impkey, one of the killed, to charge and tamp this shot, Friday night, and had left Impkey to fire it, and he supposed Impkey did fire it at that time. This shot in the cross-cut had been drilled to within a few inches of being through into the ninth south entry; the length of the drill hole was $7\frac{1}{2}$ feet; the shot did not blow the tamping, and enabled us to measure the length of the hole, which had contained powder, also to measure the length of the tamping, and make an estimate of the amount of powder which had been used in preparing this shot.

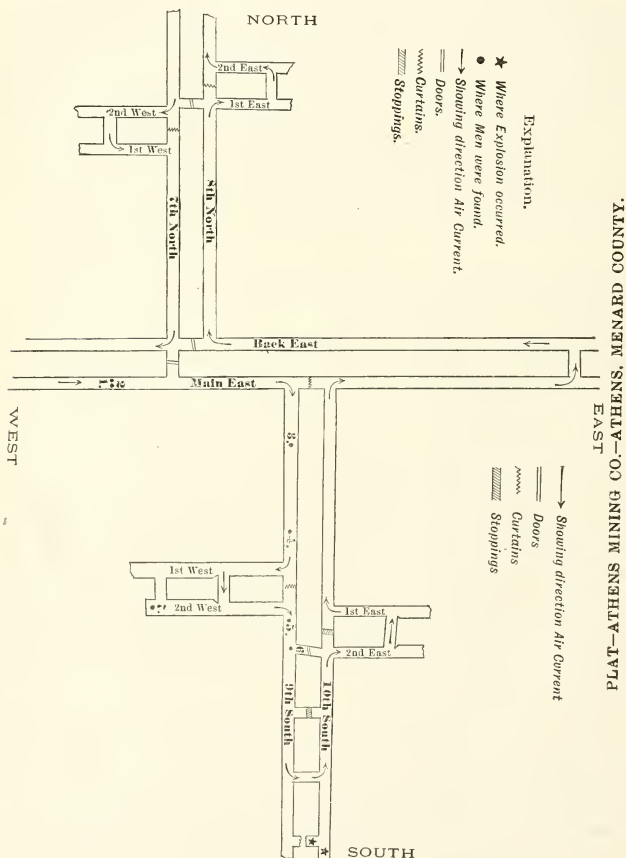
As stated the drill hole was $7\frac{1}{2}$ feet long; there was 16 inches of tamping left in the holes, this we drilled out, leaving 6 feet of the drill hole, which had been filled with blasting powder.

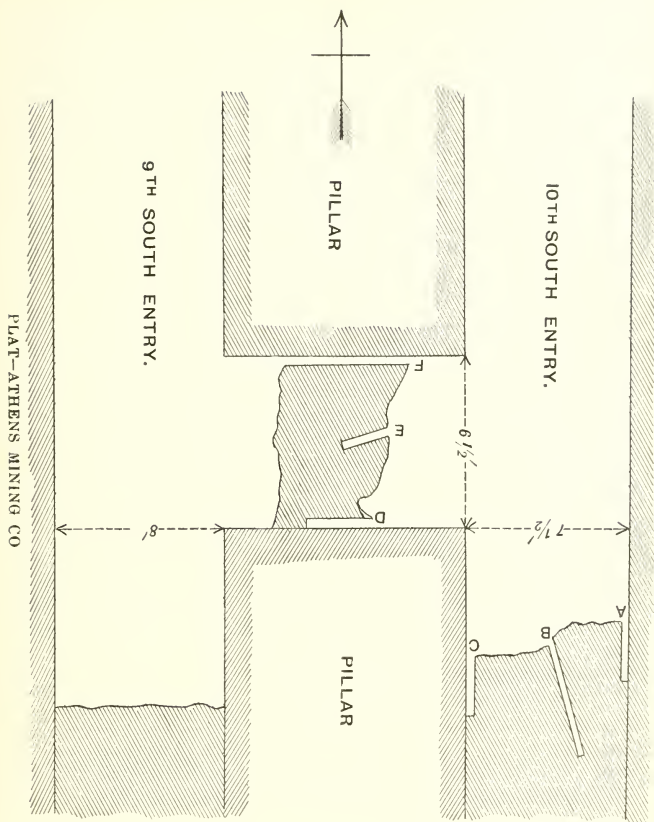
Allowing that 1 cubic foot of powder will weigh 62.5 pounds, we would have contained in this drill hole, which was 6 feet in length and $2\frac{3}{4}$ inches in diameter, 14.2 pounds of blasting powder. Assuming the foregoing as a basis in estimating the amount of powder used in the five shots that were fired the morning of the explosion, we would have in "dead drill holes" alone $12\frac{1}{2}$ feet. The cubical contents of these drill holes would be 825 cubic inches, and would contain 29 pounds of blasting powder.

However, taking into consideration the length of the drill holes as measured, it was found that the drill holes on the left hand rib of the tenth south entry was $6\frac{1}{2}$ feet long, and that the one on the right hand rib of the same entry was 7 feet long, while the one in the center of the rib showed $3\frac{1}{2}$ feet of dead hole. The drill hole on the left hand rib of the cross-cut was $6\frac{1}{2}$ feet long, and the one in the center $2\frac{1}{2}$ feet dead. Therefore the conclusion is reached, after very careful measurements and calculations, that there must have been fully one and one-half kegs or 37 pounds of powder used and exploded in firing these five shots.

In addition to the powder exploded in these shots, as described, a portion of a keg of powder had been left on the tenth south entry, about 70 feet from the face of the entry; this would increase the quantity to fully 50 pounds of powder exploded in the tenth south entry. This entry was only $7\frac{1}{2}$ feet wide and 6 feet high; the cross-cut was $6\frac{1}{2}$ feet wide and 6 feet high. There was of course a lack of room for the rapid expansion and dissipation of the heat produced by the firing of these tight shots. The force of the powder was expended in creating velocity and the velocity thus created put in motion the

smoke or carbonic oxide gas produced by the incomplete combustion of the powder, consequently carrying the flame a long distance, which, in this instance was from 500 to 600 feet. It was found that gas had settled in the ninth south entry, beyond the last cross cut, but none was found at any other place. In the last named entry there was very little indications of an explosion. In the tenth south entry was found every indication to justify the forming of an opinion that the explosion was caused by the shot fired in this entry.





FATAL ACCIDENTS.

The following is a detailed statement of the fatal accidents that have taken place in the third district during the year ended June 30, 1903:

Jan. 6, 1903, William Johnson, helper, aged 31 years, married, while working with the timberman in the Wabash Coal company's mine, Athens, Menard county, was injured by falling slate. His injuries proved fatal, as he died Feb. 3. He leaves a widow.

March 23, 1903, Six miners were killed by the explosion of "windy shots," in the mine of the Athens Coal company, Athens, Menard county, as follows:

Fred Impkey, aged 33 years, married, leaves a widow and one child.

Ed Corndorf, aged 35 years, married, leaves a widow and four children.

David Myers, aged 55 years, married, leaves a widow and four children.

August Neal, aged 48 years, married, leaves a widow and four children.

John Radquneski, aged 34 years, married, leaves a widow and three children.

James Patrick, aged 25 years, single.

June 27, 1903, William Mushbaugh, miner, aged 51 years, single, was crushed and instantly killed by falling roof, from a slip, in Little's mine at Wesley City. Deceased was deaf and, to a certain degree, was dumb. It is presumed he did not hear the cracking of the roof before it fell on him. His room was well timbered, showing that he was a very careful miner.

June 30, 1903, Alex. McKenzie, timberman, aged 64 years, married, received injuries by falling roof, at the Maplewood Coal company's mine, Farmington, Fulton county, resulting in his death about two hours afterwards. He was the timberman of the mine and had been in the employ of this company over two years. The mine examiner had reported to the mine manager that a fall of slate had occurred in No. 2 south entry, on the west side. The mine manager sent McKenzie and his helper to attend to the matter. The two men had cleaned away the slate and were at work propping up the clod temporarily, while preparing the permanent support. They had part of the support under the clod and, while in the act of driving a cap piece over a prop, the roof gave away, crushing McKenzie to the floor, the prop lying across his back. The deceased was conscious and talked freely, though in great pain. He died about 20 minutes after being carried to his home. His backbone was broken near its juncture with the hips. He leaves a widow and five grown up children.

The tables of fatal and non fatal accidents, also the county tables of the output of coal of the district follow:—

Respectfully submitted,

JAMES TAYLOR,

Peoria.

State Inspector of Mines, Third District.

Fatal Casualties--Third District--July 1, 1903.

Date.	Name.	Age.	Occupation.	Residence (town).	Married.	Widow.	Children.	Single.	Dependents	Cause of Accident.
1903										
Jan. 6	Wm. Johnson.....	31	Miner.....	Athens.....	1	1	..	..	1	Falling roof.....
Mar. 23	Fred Impkey.....	33	do.....	do.....	1	1	1	..	2	Explos'n, windy shot.
23	Ed Corndorf.....	35	do.....	do.....	1	1	4	..	5	do.....
23	David Myers.....	55	do.....	do.....	1	1	4	..	5	do.....
23	August Neal.....	48	do.....	do.....	1	1	4	..	5	do.....
23	Jno. Radquneski.....	34	do.....	do.....	1	1	3	..	4	do.....
23	Jas. Patrick.....	25	do.....	do.....	..	..	..	1	..	do.....
June 27	Wm. Mushbaugh.....	51	do.....	Wesley City	..	..	..	1	..	Falling roof.....
30	Alex McKenzie.....	64	Timberman	Farmington	1	1	2	..	3	do.....
	Total—9.....				7	7	18	2	25	

Recapitulation of Fatal Accidents—Third District—July 1, 1903.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Athens	7	Miners	8	Explos'n, windy shot	6	Wabash Coal Co.	1
Wesley City ..	1	Timberman...	1	Falling of roof	3	Athens Coal Co.	6
Farlington..	1					Ed Little	1
						Maplewood Coal Co.	1
Totals	9		9		9		9

Non Fatal Casualties—Third District—July 1, 1903.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury.	Time lost—days.
1902									
Oct. 3	Wm. Owen	22	Reed City...	....	1	....	....	Leg broken; falling roof.....	*
8	Geo. Herin.....	30	Pekin	1	....	2	....	Wrist broken; premature shot	71
10	Jas. Wilson.....	32	Wesley City	1	....	....	....	Wrist broken; flying coal.....	60
								Head and shoulders bruised	
12	Jas. Curtles.....	46	Reed City...	1	....	6	....	by door; windy shot.....	24
12	Mat. Regh.....	45	Peoria	1	....	5	....	Ankle bruised; falling rock..	40
Dec. 3	Olexand. Lebas..	36	Pekin .....	....	1	....	....	Leg bruised; falling rock.....	40
27	Fred Fisher	27	Peoria	1	....	1	....	Shoulder and body injured;	
								ribs broken; windy shot.....	60
1903									
Jan. 20	Wm. Chaney.....	24	Reed City...	....	1	....	....	Ribs broken; pit car.....	30
Feb. 17	Macheal Backs...	45	Bartonville.	1	....	3	....	Body burned by shot.....	36
Mar. 5	Aug. Gunshesa..	25	do	1	....	1	....	Back injured; falling slate...	30
21	Daniel Reeves....	16	Kingston ...	....	1	....	....	Leg and arm broken; falling	
								roof	*
23	Paul Jerklins	26	Athens .....	....	1	....	....	Face and hands burned; windy	
								shot.....	*
May 26	Wm. Turner.....	45	Bartonville.	1	....	3	....	Shoulder bruised; premature	
								blast	30
June 29	J. Shabatka.....	27	Reed City...	....	1	....	....	Body bruised; falling roof....	30
29	J. T. Smith.....	29	Farlington	1	....	5	....	Arm broken; falling roof.....	*
	Total—15.....	..	.....	9	6	26	39	.....	451

* Not recovered July 1, 1903.

Total men injured.....	15
Not recovered July 1, 1903.....	4
Number recovered July 1, 1903.....	11
Time lost by men recovered	451 days
Average days lost by men recovered.....	41

Recapitulation of Non-Fatal Accidents--Third District--July 1, 1903.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No	Colliery.	No
Reed City.....	4	Miners.....	10	Falling roof.....	4	Newsam Bros.....	5
Pekin.....	2	Driver.....	1	Premature blast.....	2	Ubben Coal Co.....	1
Wesley City..	1	Shot firers....	2	Flying coal from shot	1	Ed. Little.....	2
Peoria.....	2	Gripper.....	1	Firing windy shot....	3	Third Vein Coal Co....	1
Bartonville...	3	Timberman ..	1	Falling rock.....	2	Grant.....	1
Klingston.....	1			Caught between roof		Sholl Bros.....	2
Athens.....	1			and car.....	1	Treasure Coal Co.....	1
Farmington ..	1			Shot blow'g through		Mapleton Coal Co.....	1
				pillar.....	1	Athens Coal Co.....	1
				Falling slate.....	1		
Totals	15		15		15		15

Table Showing the Number and Nature of Non-Fatal Casualties, Conjugal Relations and Time Lost--Third District--1903.

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Leg broken.....	1		1				*
Wrist broken.....	2	2		5	131	65.30	1.81
Head and shoulder injured.....	1	1		7	24	24.00	.99
Leg and ankle bruised.....	2	1	1	6	80	40.00	1.81
Ribs broken.....	2	1	1	3	90	45.00	1.81
Body burned by blowing shot.....	1	1		4	36	36.00	.99
Back injured.....	1	1		2	30	30.00	.99
Leg and arm broken.....	1		1	2			*
Face and hands burned.....	1		1				*
Shoulder injured.....	1	1		4	30	30.00	.99
Arm broken.....	1	1		6			*
Body bruised.....	1		1		30	30.00	.99
Total.....	15	9	6	39	451	30.1	101.8

Cass County—Third District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	Wm. Shore.....	Chandlerville	1,605	.....	1,605	.....	.....	.....
2	Charles Nelson.....	.. do	1,202	.....	1,202	.....	.....	.....
Totals			2,807	.....	2,807	.....	.....	.....

Mines in 1902, 2.

Mines in 1903, 2.

Fulton County—Third District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Whitebreast Fuel Co. of Illinois, E	Dunfermline..	195,355	14,182	142,315	.....	444	38,414
2	Maplewood Coal Co., Black Hawk	Farmington ..	145,817	1,749	99,155	3,791	1,020	40,102
3	Monmouth Coal Co.....	Canton	137,209	860	58,200	29,756	19,184	29,209
4	Whitebreast Fuel Co. of Illinois, C	Dunfermline..	101,647	39,203	52,328	.....	7,673	2,443
5	Applegate & Lewis, West Shaft	Cuba	70,643	15,835	32,761	.....	5,145	16,902
6	Norris Coal Mining Co... Norris	Norris	63,377	5,181	41,317	.....	5,635	11,244
7	East Cuba Coal Co., East Shaft	Cuba	55,908	30,834	18,603	.....	4,168	2,303
8	Scripps Coal Co	Astoria	47,762	1,832	29,432	.....	5,531	10,967
9	Newsam Bros., Maple- wood	Farmington ..	36,462	.....	23,710	.....	7,292	5,460
10	Canton Union Coal Co... Canton	Canton	30,834	.....	23,751	.....	.....	7,083
11	Farmington Coal Co., Nickel Plate	Farmington ..	30,383	2,219	18,538	.....	3,333	6,293
12	Monarch Coal & M. Co.,1 do	do	18,198	2,216	11,334	.....	.....	4,648
13	Central Coal & M. Co.,... East Bryant..	East Bryant..	12,000	.....	9,000	.....	.....	3,000
14	Essex & Fritz,1	Parrville	8,684	.....	8,684	.....	.....	.....
15	Spoon River Coal Co..... Ellisville	Ellisville	7,535	1,660	4,680	.....	.....	1,185
16	Essex & Fritz,2	Cuba	4,907	.....	4,907	.....	.....	.....
Totals			966,721	115,771	578,715	33,547	59,425	179,263

Cass County—Third District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine					Number of fatal.	Number of non-fatal.	
\$3,210	6	2	8	.....	1,605	.....	275	1,605	\$1 00	75	.....	.....	1
2,404	4	1	5	.....	1,202	.....	210	1,202	1 00	60	.....	.....	2
\$5,614	10	3	13	.....	2,807	.....	243	2,807	\$1 00	135	.....	.....	

Fulton County—Third District—Continued.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$250,873	129	60	189	190,489	648	4,217	253	195,355	\$0 56*	8,524	.....	.....	1
180,790	150	51	201	143,597	400	1,820	258	145,817	56	7,565	.....	1	2
148,228	106	64	170	134,109	600	2,500	271	137,209	56	5,953	.....	.....	3
133,390	94	68	162	97,455	909	3,283	234	101,647	56	4,527	.....	.....	4
73,282	78	40	118	68,303	150	2,190	200	70,643	56	2,840	.....	.....	5
76,770	75	33	108	60,918	1,000	1,460	†198	63,377	56	2,750	.....	.....	6
60,085	68	22	90	53,486	119	2,303	202	55,908	56	1,933	.....	.....	7
53,805	51	24	75	43,872	1,427	2,463	252	47,762	56	1,371	.....	.....	8
39,381	40	23	63	33,000	2,000	1,462	203	30,462	56	1,855	.....	.....	9
45,106	45	14	59	25,000	5,834	.....	280	30,834	56	1,315	.....	.....	10
34,698	40	18	58	29,076	799	508	190	30,383	56	1,703	.....	.....	11
19,598	24	15	39	16,015	467	1,716	244	18,198	56	922	.....	.....	12
16,650	60	48	108	11,800	.....	260	76	12,000	56	565	.....	.....	13
14,064	4	2	6	8,684	.....	.....	260	8,684	56	241	.....	.....	14
10,462	14	5	19	7,460	.....	75	150	7,535	56	350	.....	.....	15
8,587	10	6	16	4,800	15	92	250	4,907	56	210	.....	.....	16
\$1,166,233	988	493	1,481	928,064	14,368	24,289	230	966,721	\$0 575	42,624	1	1	

* To April 1, 1902, 56 cents; April 1 to July 1, 1903, 62 cents.

† Three months idle on account of cyclone June 10.

Fulton County—Third District—1903—Continued.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	Surprise Coal Co.	Astoria	1,300	1,300				
2	Temple Gelselman.	do	1,012		1,012			
3	Joseph Wilson.	do	1,021		1,021			
4	K. A. Rumbel.	do	1,690		1,690			
5	Westerfield & Co.	Canton	1,440		1,440			
6	Canton Coal Co.	do	28,000		28,000			
7	Martin & Son.	do	480		480			
8	A. M. Everley	do	3,600		3,600			
9	W. E. Anderson	do	3,200		3,200			
10	Murphy Bros.	do	2,610		2,610			
11	Thomas Parcell	do	2,300		2,300			
12	Joseph McLaughlin.	do	610		610			
13	J. R. Riley	Breeds	260		260			
14	John Magner	do	110		110			
15	E. P. Moran	St. David	1,000		1,000			
16	Wm. Jordan	do	400		400			
17	Abraham Bath	do	360		360			
18	L. R. Snider	do	800		800			
19	Thos. Baxter	do	1,620		1,620			
20	Wm. Roddis	Ipava	3,441		3,441			
21	D. S. Mayall	do	600	600				
22	H. B. Doyle	Norris	120		120			
23	Yockum & Son	Lewistown	1,372		1,372			
24	Turner & Hubed	do	3,100	3,100				
25	Isaac Bath	do	1,620		1,620			
26	W. H. James	Fairview	32		32			
27	Geo. Prowl	do	100		100			
28	A. J. Gunnett.	do	1,520		1,520			
29	T. H. Travers	do	300		300			
30	A. Anderson	do	507		507			
31	L. W. Davis	do	400		400			
32	R. E. Gould & Co.	do	900		900			
33	Jacob Cleary	do	640		640			
34	Robert Raby	Cuba	500		500			
35	G. K. Barrere	Canton	810		810			
	Product of 12 small mines		2,000		2,000			
	Totals		69,775	5,000	64,775			
	Totals—63 mines..		1,036,496	120,771	643,490	33,547	59,425	179,263

Mines in 1902, 67.

New mines, 6.

Abandoned mines, 10.

Mines in 1903, 63.

Fulton County—Third District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal	ACCI- DENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$1,625	8	2	10	.....	1,300	.....	50	1,300	\$0 62	30	.....	.....	1
2,024	2	1	3	.....	1,012	.....	140	1,012	70	30	.....	.....	2
2,042	4	.....	4	.....	1,021	.....	120	1,021	1 25	.....	.....	.....	2
2,350	5	1	6	.....	1,690	.....	156	1,690	80	50	.....	.....	4
2,160	5	1	6	.....	1,440	.....	150	1,440	80	55	.....	.....	5
35,000	35	8	43	.....	28,000	.....	250	28,000	62	625	.....	.....	6
600	4	1	5	.....	480	.....	80	480	87 ¹ / ₂	40	.....	.....	7
5,400	6	1	7	.....	3,600	.....	300	3,600	87 ¹ / ₂	180	.....	.....	8
4,000	10	1	11	.....	3,200	.....	160	3,200	87 ¹ / ₂	128	.....	.....	9
3,262	4	1	5	.....	2,610	.....	140	2,610	87 ¹ / ₂	100	.....	.....	10
2,875	4	1	5	.....	2,300	.....	200	2,300	87 ¹ / ₂	92	.....	.....	11
763	4	1	5	.....	610	.....	130	610	87 ¹ / ₂	41	.....	.....	12
390	3	.....	3	.....	260	.....	66	260	62	10	.....	.....	13
165	2	.....	2	.....	110	.....	90	110	62	4	.....	.....	14
1,260	2	.....	2	.....	1,000	.....	120	1,000	80	45	.....	.....	15
500	3	.....	3	.....	400	.....	65	400	80	27	.....	.....	16
450	1	.....	1	.....	360	.....	100	360	80	8	.....	.....	17
1,000	5	1	6	.....	800	.....	70	800	62	50	.....	.....	18
2,025	5	1	6	.....	1,620	.....	112	1,620	80	61	.....	.....	19
5,161	8	1	9	.....	3,441	.....	300	3,441	80	136	.....	.....	20
750	4	1	5	.....	600	.....	60	600	62	18	.....	.....	21
150	1	.....	1	.....	120	.....	70	120	80	.....	.....	.....	22
2,401	12	1	13	.....	1,372	.....	191	1,372	80	78	.....	.....	23
3,875	7	2	9	.....	3,100	.....	200	3,100	82	200	.....	.....	24
3,240	2	1	3	.....	1,620	.....	160	1,620	82	80	.....	.....	25
40	1	.....	1	.....	32	.....	12	32	82	2	.....	.....	26
125	2	.....	2	.....	100	.....	30	100	75	5	.....	.....	27
1,900	4	.....	4	.....	1,520	.....	230	1,520	87 ¹ / ₂	.....	.....	.....	28
375	2	.....	2	.....	300	.....	70	300	87 ¹ / ₂	13	.....	.....	29
634	1	.....	1	.....	507	.....	280	507	75	.....	.....	.....	30
500	2	.....	2	.....	400	.....	80	400	75	22	.....	.....	31
1,125	4	.....	4	.....	900	.....	115	900	75	.....	.....	.....	32
800	3	.....	3	.....	640	.....	100	640	87 ¹ / ₂	45	.....	.....	33
625	1	.....	1	.....	*500	.....	180	500	.....	25	.....	.....	34
1,215	3	.....	3	.....	810	.....	130	810	87 ¹ / ₂	32	.....	.....	35
3,000	.....	.....	.....	.....	2,000	.....	110	2,000	75	100	.....	.....	.....
\$94,827	169	27	196	.....	69,775	.....	102	.....	\$0 74	2,332	.....	.....	.....
\$1,261,060	1,157	520	1,677	928,064	84,143	24,289	.....	1,036,496	.....	44,956	1	1	.....

* 500 tons mined by day.

Hancock County—Third District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUIPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINE.								
1	Meredith Bros.....	Augusta.....	7,700	7,700	.....	.....	.....	.....
LOCAL MINES.								
1	C. H. Ellis	Augusta	1,220	1,220	.....	.....	.....	.....
2	L. Bennett	do	810	810	.....	.....	.....	.....
3	Geo. Worley	do	860	860	.....	.....	.....	.....
4	Geo. Willey	do	340	340	.....	.....	.....	.....
5	S. Jones	do	410	410	.....	.....	.....	.....
Totals			3,640	3,640	.....	.....	.....	.....
Totals—6 mines...			11,340	11,340	.....	.....	.....	.....

Mines in 1902, 6.

New mines, 1.

Abandoned mines, 1.

Mines in 1903, 6.

Hancock County—Third District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$13,475	10	2	12	7,700	....	.....	208	7,700	\$1 25	.....	.....	.....	1
\$2,440	6	1	7	.....	1,220	.....	202	1,220	\$1 25	.....	.....	.....	1
1,620	5	1	6	.....	810	.....	210	810	1 25	.....	.....	.....	3
1,720	4	1	5	.....	860	.....	220	860	1 25	.....	.....	.....	3
680	3	1	4	.....	340	.....	110	340	1 25	.....	.....	.....	4
820	3	1	4	.....	410	.....	200	410	1 25	.....	.....	.....	5
\$7,280	21	5	26	.....	3,640	.....	188	3,640	\$1 25	.....	.....	.....	
\$20,755	31	7	38	7,700	3,640	.....	.....	11,340	.....	.....	.....	.....	

McDonough County—Third District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINE.								
1	Rippetoe & Rundle.....	Colchester....	14,429	12,023	.....	.....	.....	2,405
LOCAL MINES.								
1	John Pearson.....	Colchester....	450	.....	450	.....	.....	.....
2	John Nee.....	do.....	2,080	.....	2,080	.....	.....	.....
3	Wilson & Thornton.....	do.....	60	.....	60	.....	.....	.....
4	Anton Lokosik.....	do.....	320	.....	320	.....	.....	.....
5	Wayland Bros.....	do.....	240	.....	240	.....	.....	.....
6	Guy & Co.....	do.....	70	.....	70	.....	.....	.....
7	King & Peck.....	do.....	100	.....	100	.....	.....	.....
8	John Betson.....	do.....	50	.....	50	.....	.....	.....
9	George Polonus.....	do.....	300	.....	300	.....	.....	.....
10	D. E. Perry.....	do.....	120	.....	120	.....	.....	.....
11	Wm. Hoar.....	do.....	100	.....	100	.....	.....	.....
12	Michal Humes.....	do.....	1,000	.....	1,000	.....	.....	.....
13	O. Baird & Co.....	do.....	905	.....	905	.....	.....	.....
14	Wm. Webster.....	do.....	110	.....	110	.....	.....	.....
15	Andr. w Swanson.....	do.....	321	.....	321	.....	.....	.....
16	A. A. Wagle.....	do.....	100	.....	100	.....	.....	.....
17	Amos Ebben.....	do.....	68	.....	68	.....	.....	.....
18	Lewis Lewis.....	do.....	250	.....	250	.....	.....	.....
19	John Rudee.....	do.....	416	.....	416	.....	.....	.....
20	Andrew Nelson.....	do.....	360	.....	360	.....	.....	.....
21	George Mordue.....	do.....	120	.....	120	.....	.....	.....
22	Joseph Bunt.....	do.....	80	.....	80	.....	.....	.....
23	Ell Hilliard.....	do.....	260	.....	260	.....	.....	.....
24	George Foster.....	do.....	720	.....	720	.....	.....	.....
25	Wm. Kipling.....	do.....	500	.....	500	.....	.....	.....
26	Putt Bros.....	do.....	205	.....	205	.....	.....	.....
27	Richard Laitz.....	do.....	240	.....	240	.....	.....	.....
28	J. S. Vowter.....	do.....	120	.....	120	.....	.....	.....
29	Atkinson Bros.....	do.....	1,501	.....	1,501	.....	.....	.....
30	John Wilson.....	do.....	2,765	.....	2,765	.....	.....	.....
31	Burney & Co.....	do.....	3,224	.....	3,224	.....	.....	.....
32	Williams Coal Co.....	do.....	1,600	.....	1,600	.....	.....	.....
33	R. Oldham.....	do.....	1,509	.....	1,509	.....	.....	.....
34	Wm. Robinson.....	do.....	120	.....	120	.....	.....	.....
35	James Gordon & Son.....	do.....	461	.....	461	.....	.....	.....
36	Chas. Porter.....	Macomb.....	245	.....	245	.....	.....	.....
37	John Berry.....	do.....	672	.....	672	.....	.....	.....
38	Wm. Edington.....	do.....	1,222	.....	1,222	.....	.....	.....
39	Chas. Kost.....	do.....	100	.....	100	.....	.....	.....
40	Simon Kost.....	do.....	120	.....	120	.....	.....	.....
41	Jackson Gilligan.....	Industry.....	600	.....	600	.....	.....	.....
42	C. L. Bowman.....	do.....	210	.....	210	.....	.....	.....
43	Geo. McIntire.....	do.....	300	.....	300	.....	.....	.....
44	Wm. Baker.....	do.....	320	.....	320	.....	.....	.....
45	J. C. Teel.....	do.....	962	.....	962	.....	.....	.....
46	Clay Nudd.....	LaHarpe.....	400	.....	400	.....	.....	.....
47	Darrah Bros.....	Blandinsville.....	116	.....	116	.....	.....	.....
48	Thos. E. Wilson.....	do.....	1,000	.....	1,000	.....	.....	.....
49	W. E. Stoneking.....	Siesta.....	208	.....	208	.....	.....	.....
50	Frank Vogler.....	do.....	80	.....	80	.....	.....	.....
51	John Larson.....	Colchester....	40	.....	40	.....	.....	.....

McDonough County—Third District—Continued.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$21,641 00	56	7	63	13,983	.....	445	151	14,428	\$1 00	.....	1	1
\$ 960	2	.....	2	.....	480	.....	150	480	\$1 25	.....	.....	1
4,160	6	1	.....	.....	2,080	.....	209	2,080	1 25	.....	.....	2
90	2	.....	2	.....	60	.....	35	60	1 25	.....	.....	3
450	2	.....	2	.....	320	.....	140	320	1 25	.....	.....	4
360	3	.....	3	.....	240	.....	185	240	1 25	.....	.....	5
105	3	.....	3	.....	70	.....	60	70	1 25	.....	.....	6
150	2	.....	2	.....	100	.....	70	100	1 25	.....	.....	7
75	1	.....	1	.....	50	.....	65	50	1 25	.....	.....	8
450	2	.....	2	.....	300	.....	240	300	1 25	.....	.....	9
180	1	.....	1	.....	120	.....	75	120	1 25	.....	.....	10
150	1	.....	1	.....	100	.....	85	100	1 25	.....	.....	11
1,500	2	.....	2	.....	1,000	.....	240	1,000	1 25	.....	.....	12
1,357	2	.....	2	.....	905	.....	275	905	1 25	.....	.....	13
165	1	.....	1	.....	110	.....	40	110	1 25	.....	.....	14
481	2	.....	2	.....	321	.....	175	321	1 25	.....	.....	15
150	3	.....	3	.....	100	.....	60	100	1 25	.....	.....	19
102	3	.....	3	.....	68	.....	20	68	1 25	.....	.....	17
375	2	.....	2	.....	250	.....	180	250	1 25	.....	.....	18
624	2	.....	2	.....	416	.....	180	416	1 25	.....	.....	19
540	2	.....	2	.....	360	.....	190	360	1 25	.....	.....	20
180	3	.....	3	.....	120	.....	30	120	1 25	.....	.....	21
120	1	.....	1	.....	80	.....	80	80	1 25	.....	.....	22
390	2	.....	2	.....	260	.....	130	260	1 25	.....	.....	23
1,050	3	.....	3	.....	720	.....	180	720	1 25	.....	.....	24
750	2	.....	2	.....	500	.....	180	500	1 25	.....	.....	25
307	2	.....	2	.....	205	.....	168	205	1 25	.....	.....	26
360	2	.....	2	.....	240	.....	155	240	1 25	.....	.....	27
180	1	.....	1	.....	120	.....	80	120	1 25	.....	.....	28
2,251	10	1	11	.....	1,501	.....	214	1,501	1 25	.....	.....	29
4,147	10	.....	10	.....	2,765	.....	216	2,765	1 25	.....	.....	30
4,836	10	3	13	.....	3,224	.....	280	3,224	1 25	.....	.....	31
2,400	5	.....	5	.....	1,600	.....	200	1,600	1 25	.....	.....	32
2,263	7	1	8	.....	1,509	.....	216	1,509	1 25	.....	.....	33
180	2	.....	2	.....	120	.....	60	120	1 25	.....	.....	34
691	4	.....	4	.....	461	.....	200	461	1 25	.....	.....	35
428	5	.....	5	.....	245	.....	95	245	1 12 ¹ / ₂	.....	.....	26
1,176	4	.....	4	.....	672	.....	140	672	1 25	.....	.....	37
2,444	6	1	7	.....	1,222	.....	240	1,222	1 25	.....	.....	38
175	2	.....	2	.....	100	.....	55	100	1 25	.....	.....	39
210	2	.....	2	.....	120	.....	50	120	1 25	.....	.....	40
1,050	4	.....	4	.....	600	.....	160	600	1 25	.....	.....	41
367	2	.....	2	.....	210	.....	120	210	1 25	.....	.....	42
525	1	.....	1	.....	300	.....	160	300	1 25	.....	.....	43
560	1	.....	1	.....	320	.....	110	320	1 25	.....	.....	44
1,683	3	.....	3	.....	962	.....	140	962	1 25	.....	.....	45
1,000	4	.....	4	.....	400	.....	100	400	1 25	.....	.....	46
290	2	.....	2	.....	116	.....	100	116	1 75	.....	.....	47
2,250	6	1	7	.....	1,000	.....	300	1,000	1 37 ¹ / ₂	.....	.....	48
364	2	.....	2	.....	208	.....	104	208	1 25	.....	.....	49
140	1	.....	1	.....	80	.....	50	80	1 25	.....	.....	50
70	1	.....	1	.....	40	.....	30	40	1 25	.....	.....	51

McDonough County—Third District—Concluded.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES— <i>Concluded.</i>								
52	Wm. Hulson.....	Colchester...	216	.....	216	.....	.....	.....
53	Fred Renneker	Bushnell.....	760	.....	760	.....	.....	.....
54	Andrew Newnker.....	do	100	.....	100	.....	.....	.....
55	Waddle Bros.....	Tennessee....	420	.....	420	.....	.....	.....
Totals			28,966	.....	28,966	.....	.....	.....
Totals—56 mines..			43,394	.....	40,989	.....	.....	1,960

Mines in 1902, 47.

New mines, 11.

Abandoned mines, 2.

Mines in 1903, 56.

McDonough County—Third District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.	
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$ 378	2	.....	2	.....	216	.....	120	216	\$1 25	.....	.....	.....
1,320	3	.....	3	.....	760	.....	208	760	1 25	.....	.....	.....
175	1	.....	1	.....	100	.....	30	100	1 25	.....	.....	.....
735	5	.....	5	.....	420	.....	126	420	1 25	.....	.....	.....
<u>\$47,945</u>	<u>172</u>	<u>8</u>	<u>180</u>	.....	<u>28,966</u>	.....	<u>136</u>	<u>28,966</u>	<u>.....</u>	.....	.....	.....
\$69,586	228	25	243	13,983	28,966	445	.....	43,194	\$1 25	.....	.....	.....

52
53
54
55

Menard County—Third District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Greenview C. & M. Co...	Greenview...	141,064	.....	111,341	.....	3,346	26,377
2	Wabash Coal Co.....	Athens	132,439	53,057	53,215	.....	4,488	21,679
3	Athens Mining Co., 2....	do	87,806	35,709	32,254	.....	4,325	15,518
4	Tallula Coal Co.....	Tallula	43,280	33,357	7,159	.....	184	2,580
5	South Mountain Coal Co.	Petersburg...	34,804	18,645	10,018	1,004	.....	5,137
6	Petersburg Coal Min. Co.	do	17,816	10,274	3,953	.....	536	3,053
7	Valley Coal Co.....	do	15,000	15,000	.....	.....	.....	.....
8	Middletown Coal Co.....	Middletown ..	4,200	.....	4,200	.....	.....	.....
Totals			476,409	166,042	222,140	1,004	12,879	74,344
LOCAL MINES.								
1	G. F. Johnson.....	Middletown ..	5,240	.....	5,240	.....	.....	.....
2	Arthur Wainwright.....	Sweetwater ..	2,759	.....	2,059	.....	700	.....
3	Wm. Denton.....	Petersburg...	2,640	.....	2,640	.....	.....	.....
4	Joseph Mullegram	do	2,040	.....	2,040	.....	.....	.....
5	Charles O. Neill.....	do	1,600	.....	1,600	.....	.....	.....
6	Duncan Coal Co.....	Tice	610	.....	610	.....	.....	.....
7	Bryant Coal Co.....	Loyd	520	.....	520	.....	.....	.....
8	Peter Becker.....	Petersburg...	510	.....	510	.....	.....	.....
Totals			15,919	.....	15,219	.....	700	.....
Totals—16 mines..			492,328	166,042	237,359	1,004	13,579	47,902

Mines in 1902, 13.

New mines, 3.

Mines in 1903, 16.

Menard County—Third District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$139,225	120	44	164	126,809	3,607	10,649	275	141,064	\$0 497*	6,210	.....	.....	1
129,970	100	39	139	125,355	2,595	4,488	244	132,439	497	5,529	1	.....	2
110,461	70	36	106	82,203	2,729	2,874	228	87,806	497	3,862	6	1	3
44,383	50	22	72	38,865	3,315	1,100	250	43,280	497	1,995	.....	.....	4
33,889	33	18	51	29,157	5,847	800	256	34,604	497	1,444	.....	.....	5
21,770	25	12	37	15,063	1,986	767	240	17,816	497	942	.....	.....	6
19,500	20	9	29	13,400	1,200	400	230	15,000	497	690	.....	.....	7
7,350	15	5	20	.....	4,200	.....	120	4,200	497	150	.....	.....	8
<u>\$506,548</u>	<u>433</u>	<u>185</u>	<u>618</u>	<u>429,652</u>	<u>25,479</u>	<u>21,078</u>	<u>230</u>	<u>476,409</u>	<u>\$0 512</u>	<u>20,822</u>	<u>7</u>	<u>1</u>	
\$9,170	6	2	8	.....	5,240	.....	230	5,240	\$0 67	215	.....	.....	1
4,683	6	2	8	.....	2,759	.....	240	2,759	67	110	.....	.....	2
4,620	6	2	8	.....	2,640	.....	210	2,640	67	120	.....	.....	3
3,570	6	1	7	.....	2,040	.....	212	2,040	67	100	.....	.....	4
2,800	4	1	5	.....	1,600	.....	200	1,600	67	84	.....	.....	5
1,067	3	1	4	.....	610	.....	180	610	67	32	.....	.....	6
910	3	1	4	.....	520	.....	200	520	67	26	.....	.....	7
892	3	2	5	.....	510	.....	195	510	67	27	.....	.....	8
<u>\$27,683</u>	<u>37</u>	<u>12</u>	<u>49</u>	.....	<u>15,919</u>	.....	<u>208</u>	<u>15,919</u>	<u>\$0 67</u>	<u>714</u>	.....	.....	
<u>\$534,231</u>	<u>470</u>	<u>197</u>	<u>667</u>	<u>429,852</u>	<u>41,398</u>	<u>21,078</u>	.....	<u>492,328</u>	.....	<u>21,536</u>	<u>7</u>	<u>1</u>	

* Two prices have been paid for mining during this fiscal year—\$0 497 and \$0 556.

Peoria County—Third District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Sholl Bros., 3.....	Peoria	90,500	50,000	22,500	8,500	.....	9,500
2	Newsam Bros., K.....	do	71,609	.....	45,830	.....	14,322	11,457
3	Wolschlag Coöperative..	do	67,477	67,477	.....	.....	.....	.....
4	Clark Coal & Coke Co...	do	63,792	.....	38,275	.....	.....	25,517
5	Howarth & Taylor	Edwards	61,133	.....	47,579	.....	13,554	.....
6	Newsam Bros., R.....	Peoria	55,565	.....	35,561	.....	11,114	8,890
7	Collier Coöperative C. Co	Bartonville...	46,733	44,420	1,420	.....	.....	893
8	Vickery Bros	Peoria	34,260	.....	33,000	.....	.....	1,260
9	Newsam Bros., H.....	do	30,466	.....	19,803	.....	6,093	4,570
10	Reents Bros	Kramm	29,700	2,500	23,000	.....	.....	4,200
11	C. B. Kramm & Bro.....	Edwards	28,600	.....	27,000	.....	.....	1,600
12	Newsam Bros., S.....	Peoria	27,577	.....	16,925	.....	5,515	5,137
13	W. E. Foley	Mapleton	26,820	.....	23,820	.....	.....	3,000
14	Peter Grant & Son	R. R. 1. Peoria	20,935	.....	13,967	.....	348	6,620
15	Jas. Walker.....	Mapleton	20,600	.....	20,000	.....	.....	600
16	Elmwood Coal Co.....	Elmwood	18,240	.....	16,120	.....	.....	2,120
17	German Coal Co.....	Peoria	17,670	17,670	.....	.....	.....	.....
18	Third Vein Coal Co	Orch'd Mines	16,420	.....	15,200	.....	.....	1,220
19	Gigby, Cusack & Edwards	Edwards	6,890	.....	6,890	.....	.....	.....
Totals			734,987	182,067	406,890	8,500	50,946	86,584

Peoria County—Third District—Continued.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$114,575	85	25	110	88,700	350	1,450	270	90,500	\$0 56*	5,343	2	1
76,782	71	32	103	67,809	2,000	1,800	198	71,609	56	3,346	....	3
77,599	39	14	53	66,566	120	791	250	67,477	56	4,598	....	2
72,723	80	37	117	62,792	.....	1,000	211	63,792	56	3,183	....	4
63,872	50	22	72	60,283	.....	850	258	61,133	56	2,300	....	5
53,473	65	22	87	52,265	1,200	2,100	207	55,565	56	2,883	2	6
53,615	30	10	40	46,133	.....	600	246	46,733	56	2,336	....	7
40,230	30	8	38	33,000	1,260	.....	240	34,260	56	2,120	....	8
32,860	29	13	42	27,466	1,700	1,300	201	30,466	56	1,607	....	9
38,960	36	10	46	29,300	200	200	260	29,700	56	1,600	....	10
41,300	30	7	37	28,400	.....	200	200	28,600	56	1,520	....	11
28,824	26	16	42	26,057	200	1,320	191	27,577	56	1,263	....	12
37,230	20	6	26	26,820	.....	.....	210	26,820	56	1,320	....	13
21,416	23	10	33	20,035	.....	900	232	20,935	56	1,206	....	14
30,300	20	7	27	20,000	.....	600	220	20,600	56	1,200	....	15
25,240	21	11	32	16,120	.....	2,120	190	18,240	56	920	....	16
20,320	18	5	23	17,228	217	225	220	17,670	56	855	....	17
31,254	30	10	40	16,200	.....	220	185	16,420	56	130	....	18
10,335	9	4	13	6,890	.....	.....	180	6,890	56	345	....	19
\$876,908	712	269	981	712,064	9,367	13,556	221	734,987	\$0.575	39,075	....	9

Peoria County—Third District—1903—Concluded.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	Wantling & Burdett.....	Pottstown.....	2,307		2,307			
2	Treasure Coal Co.....	Bartonville...	11,695		10,819			876
3	Ball Coal Co.....	do.....	8,661	1,418	6,677			566
4	Winters Coal Co.....	do.....	17,400	17,400				
5	Geo. Keller & Sons.....	do.....	5,771		5,771			
6	David Roberts.....	Mapleton.....	640		640			
7	Smith Miller.....	do.....	3,400		3,400			
8	W. E. Hamilton.....	do.....	1,320		1,320			
9	H. Goodwin.....	do.....	2,000		2,000			
10	D. T. Sanders & Sons.....	Glasford.....	840	840				
11	William Berry.....	Monica.....	965		965			
12	Cluskey & Simons.....	do.....	890		890			
13	Oscar Graves.....	Duncan.....	1,260	1,260				
14	A. W. Higbee.....	Princeville.....	2,150		2,000			150
15	Taylor & Sons.....	do.....	2,014		2,014			
16	Joseph Crew.....	Chillicothe.....	3,648		3,648			
17	Jefford & Bro.....	Kingston.....	4,648		4,648			
18	Fair Oak Coal Co.....	R. R. 1, Peoria.....	1,800		1,800			
19	White Coal Co.....	do.....	4,248		4,140			108
20	Limestone Coal Co.....	do.....	4,112		3,432			680
21	L. Schnelder.....	do.....	1,820		1,820			
22	John Birdols.....	do.....	2,000		2,000			
23	Mohn Coal Co.....	do.....	4,056	312	3,640			104
24	Martin & Lane.....	Peoria.....	1,200		1,200			
25	F. P. Schmidt & Sons, 1.....	R. R. 3, Peoria.....	31,659	31,659				
26	F. P. Schmidt & Sons, 2.....	do.....	16,415	16,415				
27	W. H. Poole.....	Kickapoo.....	1,400		1,400			
28	Mann Bros.....	Peoria.....	3,210		3,210			
29	Hibberd & Snedden.....	do.....	9,210		9,210			
30	George Rattleback.....	Brimfield.....	1,410		1,410			
31	George Mulvaney.....	do.....	860		860			
32	H. Durant.....	do.....	1,620		1,620			
33	Wm. Kelley.....	do.....	2,000		2,000			
34	Wm. Johnson.....	Hanna.....	510		510			
35	Adams Coal Co.....	Peoria.....	6,240		6,240			
36	R. Clarkson.....	Alta.....	460		460			
37	S. Hurst.....	Bartonville.....	4,840		4,840			
38	Chas. Carroll.....	Duncan.....	1,110		1,110			
39	Wm. Clarkson.....	Edwards.....	620		620			
40	E. C. Snyder.....	do.....	390		390			
41	Chas. Kingsley.....	do.....	360		360			
42	Jas. Pemble.....	Elmwood.....	1,260		1,260			
43	Charles Alys.....	Laura.....	410		410			
44	Charles Evins.....	do.....	320		320			
45	Ogden Hays.....	Mapleton.....	630		630			
46	Fred Martin.....	Peoria.....	160		160			
47	Joseph Marle.....	Pottstown.....	420		420			
48	Wm. Black.....	Smithville.....	510		510			
49	S. A. Moore.....	Brimfield.....	610		610			
50	Standard Coal Co.....	Peoria.....	10,260		10,260			
Totals.....			185,729	68,044	115,201			2,484
Totals—69 mines..			920,716	250,111	522,091	8,500	50,946	86,584

* To April 1, 1902, 56 cents; from April 1 to July 1, 1903, 62 cents.

Mines in 1902, 72.

New mines, 2.

Abandoned mines, 5.

Mines in 1903, 69.

Peoria County—Third District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes	Total.	Tons loaded on cars for ship- ment and sup- plied to loco- motives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non- fatal.
\$ 3,460	7	1	8		2,307		230	2,307	\$0 62	173		
16,557	16	4	20		11,695		220	11,695	62	912		1
12,000	7	2	9		8,105	566	236	8,661	62	574		3
21,750	15	4	19		17,400		263	17,400	62	800		4
8,657	6	1	7		5,771		264	5,771	62	338		5
980	3	1	4		640		180	640	1 00	25		6
6,100	4	2	6		3,400		225	3,400	1 00	135		7
1,980	3	1	4		1,320		100	1,320	62	60		8
3,000	6	1	7		2,000		120	2,000	62	65		9
1,050	2	1	3		840		105	840	62	40		10
1,447	3	1	4		965		200	965	87 ¹ / ₂			11
1,335	3	1	4		890		210	890	87 ¹ / ₂			12
1,890	5	1	6		1,260		240	1,260	87 ¹ / ₂			13
3,039	6	5	11		2,000	150	300	2,150	1 00			14
3,021	6	2	8		2,014		225	2,014	1 00	50		15
5,472	5	1	6		3,648		230	3,648	1 00	71		16
6,972	8	6	14		4,648		116	4,648	62	200		17
2,700	7	2	9		1,800		230	1,800	62	130		18
6,237	5	1	6		4,140	108	234	4,248	87 ¹ / ₂	320		19
5,318	5	1	6		3,432	680	280	4,112	62	200		20
2,730	4	1	5		1,820		182	1,820	1 00	30		21
3,000	3	1	4		2,000		210	2,000	1 00	41		22
5,876	6	1	7		3,952	104	130	4,056	62	123		23
1,800	4	1	5		1,200		180	1,200	62	90		24
39,574	16	5	21		31,659		280	31,659	62	1,244		25
20,519	13	2	17		16,415		134	16,415	62	862		26
2,100	4	1	5		1,400		200	1,400	1 00			27
4,815	6	2	8		3,210		120	3,210	62	68		28
13,815	16	2	18		9,210		200	9,210	62	260		29
2,115	4	1	5		1,410		200	1,410	1 00			30
1,290	3	1	4		860		169	860	1 00			31
2,430	4	1	5		1,620		210	1,620	1 00			32
3,000	6	1	7		2,000		220	2,000	1 00			33
765	2	1	3		510		110	510	1 00			34
9,360	10	2	12		6,240		200	6,240	62	810		35
690	2	1	3		460		170	460	1 00			36
7,260	5	1	6		4,840		200	4,840	75	210		37
1,665	5	1	6		1,110		210	1,110	1 00			38
930	2	1	3		620		115	620	75	30		39
570	1	1	2		380		100	380	75	15		40
540	1	1	2		360		90	360	1 00	12		41
1,890	7	1	8		1,260		220	1,260	1 00			42
615	2	1	3		410		120	410	1 00			43
450	2	1	3		320		110	320	75			44
945	3	1	4		630		200	630	56*	31		45
240	4	1	5		160		40	160	56*	6		46
630	2	1	3		420		160	420	1 00	12		47
765	2	1	3		510		120	510	1 00			48
915	3	1	4		610		210	610	1 00			49
15,930	12	2	14		10,260		230	10,260	56*	460		50
\$258,658	276	66	342		185,729	1,600	185	185,729	\$0 69	8,397		1
\$1,135,566	985	147	1,323	712,064	195,096	13,556	.....	920,716	.....	47,472		10

Schuyler County—Third District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	Wm. Cummings.....	Rushville	2,639	.....	2,339	.....	.....	300
2	Ralph Strong.....	PleasantVlew	1,250	.....	1,250	.....	.....	.....
3	F. W. Croxton.....	.. do	320	.....	320	.....	.....	.....
4	V. L. Roosa.....	.. do	620	.....	620	.....	.....	.....
5	John Cagle.....	Littleton.....	530	.....	530	.....	.....	.....
6	John W. Hamilton.....	Frederick....	400	.....	400	.....	.....	.....
7	Hederick & Wetmore.....	.. do	871	.....	871	.....	.....	.....
8	B. F. Harris.....	Ray	2,000	.....	2,000	.....	.....	.....
9	Rufus Porter.....	.. do	869	.....	869	.....	.....	.....
10	George Mantooth.....	.. do	2,000	.....	2,000	.....	.....	.....
11	Williams & Clark.....	Rushville.....	1,038	.....	1,038	.....	.....	.....
12	Robert Keer.....	.. do	2,000	.....	2,000	.....	.....	.....
13	O. A. Alexander.....	Huntsville	220	.....	220	.....	.....	.....
14	George Edwards.....	.. do	200	.....	200	.....	.....	.....
15	Alfred Nesley.....	Pine Grove...	747	.....	747	.....	.....	.....
Totals—15 mines.....			15,734	.....	15,434	.....	.....	300

Mines in 1902, 20.

Abandoned mines. 5.

Mines in 1903, 15.

Schuyler County—Third District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	Number.
\$2,691	6	2	8	.....	2,339	300	160	2,639	\$0 55	104	.....	.....	1
1,280	3	1	4	.....	1,280	.....	200	1,280	75	34	.....	.....	2
320	2	1	3	.....	320	.....	80	320	75	12	.....	.....	3
620	4	1	5	.....	620	.....	120	620	75	25	.....	.....	4
795	3	1	4	.....	530	.....	160	530	1 00	.....	.....	.....	5
500	2	1	3	.....	400	.....	65	400	87 ¹ / ₂	.....	.....	.....	6
1,088	4	1	5	.....	871	.....	160	871	87 ¹ / ₂	40	.....	.....	7
2,750	4	1	5	.....	2,000	.....	250	2,000	75	.....	.....	.....	8
1,303	4	1	5	.....	869	.....	190	869	1 00	.....	.....	.....	9
2,750	6	1	7	.....	2,000	.....	70	2,000	75	.....	.....	.....	10
1,401	6	1	7	.....	1,038	.....	78	1,038	62 ¹ / ₂	45	.....	.....	11
3,000	4	1	5	.....	2,000	.....	100	2,000	75	70	.....	.....	12
440	2	.....	2	.....	220	.....	100	220	1 25	.....	.....	.....	13
300	2	.....	2	.....	200	.....	80	200	1 00	.....	.....	.....	14
1,120	4	.....	4	.....	747	.....	170	747	1 00	.....	.....	.....	15
\$20,360	56	13	69	.....	15,434	300	132	15,734	\$0 76	330	.....	.....	

Tazewell County—Third District—1903

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Edward Little, 1.....	Peoria	34,000	33,000				1,000
2	Ubben Coal Co.....	Pekin	25,000	20,000	4,000			1,000
3	Lake Erie Coal & M. Co..	Peoria	21,220	21,220				
4	Edward Little, 2.....	.. do	20,000	19,000				1,000
5	East Peoria Coal Co.....	.. do	19,226	4,825	9,871			4,530
Totals			119,446	98,045	13,871			7,530
LOCAL MINES.								
1	Eastern Coal Co.....	East Peoria...	300		300			
2	Wm. Cruickshank & Sons	.. do	6,325		6,073			252
3	A. G. Cummings	.. do	14,833	504	10,307		462	3,560
4	Manhattan Coal Co.....	.. do	1,322	281	1,041			
5	B. & B. Coal Co.....	.. do	5,589		3,726		287	1,576
6	G. Gablehauser.....	.. do	3,640		3,240			400
7	F. Seffer.....	.. do	520		520			
8	Grossweiler Coal Co	Pekin	14,250	2,100	11,100			1,050
9	Bolander Bros.....	.. do	4,800		4,800			
10	Backling Bros.....	East Peoria...	6,510		6,510			
11	L. Grant & Sons.....	Pekin	8,000	8,000				
Totals			66,089	10,855	47,617		749	6,838
Totals—16 mines ..			185,535	108,930	61,488		749	14,368

Mines in 1902, 14.

New mines, 2.

Mines in 1903, 16.

Tazewell County—Third District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mines.					Number of fatal.	Number of non-fatal.	
\$33,750	45	15	60	34,000	.....	.....	191	34,000	\$0 56	1,770	.....	.....	1
25,400	45	10	55	25,000	.....	.....	254	25,000	60	1,100	.....	.....	2
21,220	27	3	30	21,220	.....	.....	255	21,220	56	901	.....	.....	3
19,750	18	7	25	20,000	.....	.....	160	20,000	56	597	.....	.....	4
22,861	22	8	30	19,226	.....	.....	205	19,226	56	909	.....	.....	5
<u>\$122,981</u>	<u>157</u>	<u>43</u>	<u>200</u>	<u>119,446</u>	<u>.....</u>	<u>.....</u>	<u>213</u>	<u>119,446</u>	<u>\$0 57</u>	<u>5,277</u>	<u>1</u>	<u>3</u>	
\$ 450	.....	.....	.....	.....	.....	.....	90	300	\$0 56	136	.....	.....	1
9,204	16	3	19	.....	.....	.....	180	6,325	56	225	.....	.....	2
18,003	21	10	31	.....	.....	.....	250	14,833	56	759	.....	.....	3
1,913	3	1	4	.....	.....	.....	103	1,322	56	103	.....	.....	4
6,342	6	2	8	.....	.....	.....	243	5,559	56	211	.....	.....	5
4,960	8	2	10	.....	.....	.....	200	3,740	56	163	.....	.....	6
780	4	1	5	.....	.....	.....	110	520	56	.....	.....	.....	7
26,662	6	2	8	.....	.....	.....	234	14,250	60	429	.....	.....	8
8,400	6	.....	10	.....	.....	.....	200	4,800	60	200	.....	.....	9
9,755	16	3	19	.....	.....	.....	181	6,510	56	230	.....	.....	10
10,000	15	4	19	.....	.....	.....	200	8,000	66	400	.....	.....	11
<u>\$96,479</u>	<u>101</u>	<u>32</u>	<u>133</u>	<u>.....</u>	<u>66,089</u>	<u>.....</u>	<u>181</u>	<u>66,089</u>	<u>\$0 57</u>	<u>2,856</u>	<u>.....</u>	<u>.....</u>	
<u>\$219,460</u>	<u>258</u>	<u>38</u>	<u>333</u>	<u>119,446</u>	<u>66,039</u>	<u>.....</u>	<u>.....</u>	<u>185,535</u>	<u>.....</u>	<u>8,133</u>	<u>1</u>	<u>3</u>	

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Fulton	16	966,721	115,771	578,715	33,547	59,425	111,224	68,039	\$1,166,233
Hancock	1	7,700	.....	7,700	.....	.....	.....	.....	13,475
McDonough ..	1	14,428	.....	12,023	.....	.....	1,960	445	21,641
Menard	8	476,409	166,042	222,140	1,004	12,879	47,902	26,442	505,548
Peoria	19	734,987	182,067	406,890	8,500	50,946	79,874	6,710	876,908
Tazewell	5	119,446	98,045	13,871	.....	.....	6,530	1,000	122,981
Totals and averages	50	2,319,691	561,925	1,241,339	43,051	123,250	247,490	102,636	\$2,707,786

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Cass	2	2,807	.....	2,807	.....	.....	.....	.....	\$ 5,614
Fulton	47	69,775	5,000	64,775	.....	.....	.....	.....	94,827
Hancock	5	3,640	.....	3,640	.....	.....	.....	.....	7,280
McDonough ..	55	28,966	.....	28,966	.....	.....	.....	.....	47,945
Menard	8	15,919	.....	15,219	.....	700	.....	.....	27,683
Peoria	50	185,729	68,044	115,201	.....	.....	876	1,608	258,658
Schuyler	15	15,734	.....	15,434	.....	.....	.....	300	20,360
Tazewell	11	65,089	10,855	47,617	.....	749	652	6,186	96,479
Totals and averages	193	388,659	83,929	293,659	.....	1,449	1,528	8,094	\$558,846
Total District—all mines..	243	2,708,350	645,854	1,534,995	43,051	124,699	249,018	110,730	\$3,266,632

Third District—1903—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
998	493	1,481	894,962	33,102	14,368	24,289	230	966,721	.....	\$0.575	.....	42,624	1	1
10	2	12	7,700	.....	.....	.....	208	7,700	.....	1.25	.....	.....	..	..
56	7	63	13,983	.....	.....	445	151	14,428	.....	1.00	.....	.....	1	1
433	185	618	426,475	3,377	25,479	21,078	230	476,409	.....	0.512	.....	20,822	7	1
712	269	981	706,119	5,945	9,367	13,556	221	734,987	.....	0.575	.....	39,075	..	9
157	43	200	119,446	.....	.....	.....	213	119,446	.....	0.57	.....	5,277	1	3
2,356	999	3,355	2,168,685	42,424	49,214	59,368	223	2,319,691	.....	\$0.567	.....	107,798	9	15

Third District—1903—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal	Number fatal casualties.	Number non-fatal cas't's.
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
10	3	13	.....	.....	2,807	.....	243	2,807	.....	\$1.00	.....	135	..	..
169	27	196	.....	.....	69,775	.....	172	69,775	.....	0.74	.....	2,332	..	..
21	5	26	.....	.....	3,640	.....	188	3,640	.....	1.25	.....	.....	..	..
172	8	180	.....	.....	28,966	.....	136	28,966	.....	1.25	.....	.....	..	..
37	12	49	.....	.....	15,919	.....	208	15,919	.....	0.67	.....	714	..	..
276	66	342	.....	.....	185,729	.....	185	185,729	.....	0.69	.....	8,397	..	..
56	13	69	.....	.....	15,434	300	132	15,734	.....	0.76	.....	330	..	..
101	32	133	.....	.....	66,089	.....	181	66,089	.....	0.57	.....	2,856	..	..
842	166	1,008	.....	.....	388,359	300	164	398,659	.....	\$0.76	.....	14,764	..	..
3,198	1,165	4,363	2,168,685	42,424	437,573	59,668	.....	2,708,530	.....	.....	.....	122,562	9	15

FOURTH INSPECTION DISTRICT--1903.

TWENTIETH ANNUAL REPORT.

Counties—Christian, Logan, Macon, McLean, Shelby, Vermilion, Woodford.

THOMAS WEEKS, *Inspector*, Bloomington.

HON. DAVID ROSS, *Secretary*,

State Bureau of Labor Statistics, Springfield, Illinois.

SIR—In compliance with section 12 of the mining law, defining the duties of the State Inspectors of mines, I have the honor to submit the twentieth annual report of the coal mines of the Fourth Inspection district. This report gives the number of mines operated in each county during the year; the new and abandoned mines; the depth of the coal below the surface; the thickness of the seams, and the geological number; the nature of the opening, shaft, slope or drift; the power used, steam, horse or hand; the system of haulage; the number of hand or machine mines; the number of shipping or local mines; the total tonnage of all grades produced; the average value per ton of the different grades at the mine, and the aggregate value of the product; the number of employes above and below ground; the number of tons shipped on cars, supplied to locomotives, sold to the local trade, and consumed or wasted at the mines; the tons mined by hand and machine, and the prices paid per ton for mining; the number of fatal, and non-fatal accidents, and the number of widows and orphans of those killed.

The following is a summary of the facts contained in the report:

Number of counties producing coal.....	7
Number of mines.....	87
Number of new mines.....	18
Number of abandoned mines.....	15
Number of shipping mines.....	45
Number of local mines.....	42
Total tons of coal produced in the district.....	4,772,284
Tons of mine run.....	3,033,400
Tons of lump coal.....	1,180,829
Tons of egg coal.....	326,268
Tons of nut coal.....	135,309
Tons of pea or screenings.....	246,150
Tons of slack or waste.....	140,228
Aggregate value of total product.....	\$5,052,715
Total number of all employes.....	6,771
Number of miners.....	4,565
Others underground.....	1,321
Boys underground.....	194
All above ground.....	691
Tons shipped on cars.....	3,960,498
Tons supplied to locomotives.....	192,159

Tons sold to local trade.....	469,576
Tons consumed and wasted at mines.....	150,051
Average number of days of active operation, shipping mines.....	210
Tons mined by hand.....	4,658,864
Tons mined by machine.....	113,420
Number of kegs of powder used for blasting coal.....	114,002
Number of kegs of powder used for other purposes.....	336
Number of fatal accidents.....	30
Number of non-fatal accidents.....	73
Number of widows.....	17
Number of children orphaned.....	52
Number of tons coal mined to each fatal accident.....	159,076
Number of tons coal mined to each non-fatal accident.....	65,374
Number of mines using machines.....	3
Number of machines.....	8
Number operated by electricity.....	6
Number operated by steam.....	2
Number of steam boilers.....	158
Number of horizontal boilers.....	149
Number of upright boilers.....	9

NEW MINES.

The Kellyville Coal company has sunk and equipped a new shaft which will be known as No. 5. It is located about three miles northeast of Westville, Vermilion county.

After two unsuccessful attempts and the expenditure of a large sum of money, the Manufacturers & Consumers Coal company of Decatur, has completed the sinking of a shaft, situated on the Illinois Central railroad, about one mile north of the Sangamon river, in Macon county. The shaft is perfectly straight, 600 feet deep, and well timbered; the coal seam is number five and is four feet thick. The company is opening the mine, room and pillar, and contemplate putting in mining machines. The fan is in position and the work of completing the tower, engine house, and boiler room is being pushed as rapidly as possible. The intention of the management is to make this a model mine.

The Electric Coal company of Danville, has sunk a new mine, which is now in course of development; it is about 100 feet deep to the No. 7 or what is called the Danville seam; the tower is finished, also the engine house, and boiler room; the engines and other machinery are also in place. The escape and air shafts are completed and the fan for ventilation is in position. Everything about this mine, in the way of equipment, is first class and up to date. The mine is located on the Big Four railroad, four miles west of Danville, Vermilion county.

The Tower Hill Coal Mining company has just finished sinking a shaft at Tower Hill, Shelby county. The seam reached is number five and is 8½ feet thick, at a depth of 802 feet.

PROSPECTIVE MINES.

The Westville Coal company is sinking a shaft about one mile north of its present mine in South Westville, Vermilion county.

E. S. Gray of Danville, is sinking a new shaft about six miles west of Danville, Vermillion county, on the Big Four railroad.

The Blue Mound Coal company is sinking a shaft at Blue Mound, Macon county, on the Wabash railroad about ten miles southeast of Decatur. These are all to be operated as shipping mines. There are a number of new

local mines being opened in Vermilion and Shelby counties, but, as about the same number have been abandoned during the year it is unnecessary to particularize.

ABANDONED MINES.

The Moultrie County Coal company, Lovington, Moultrie county, after expending considerable money, time and labor in an attempt to sink a shaft, at that place, finally abandoned the project, and sold its interest to the Prudential Mining company of Danville.

The latter company expect to commence sinking operations some time in the future.

The Brookside mine No. 1, operated by the Brookside Coal company has been abandoned.

ESCAPEMENT SHAFTS.

Escapement shafts have been completed as follows:

The Kellyville Coal company, Danville, at its No. 4 and 5 mines; the John O'Connell Coal company has sunk an additional escape and air shaft at the Blue Bird mine, Grape Creek; the Latham Coal company, Lincoln, after a good deal of trouble with sand and water, and at a big expense has finally succeeded in completing the escapement shaft at its mine.

IMPROVEMENTS.

The Westville Coal company, Westville, Vermilion county, has changed the system of haulage, from mule to electric. The company has also put in two six-ton motors of the Morgan-Gardner type, and can now handle the output of the mine with ease.

The Penwell Coal company, Pana, Christian county, has changed the system of haulage underground, and have put in the Goodman Electric system. The company has built an addition to the engine room for the dynamo and engine. The engine is 147 horse power indicated, of the McEwen type, 17x16 inches bore. The dyamo is a six pole multipolar, 125 Kilo Watt, Goodman generator, driven by a belt. The motors underground are of the Goodman eight ton type, developing 75 horse power, and are geared to eight miles an hour. Two motors are in operation, one on the east and one on the west side of the mine. The main haulage ways are lighted by electricity, east and west, the plant is a success in every particular.

The Pana Coal company, Pana, Christian county, has also changed its system of haulage, from endless rope to electric. The engine is of the McEwen type 17x16 inches bore, and 150 horse power direct, connected to a Goodman Dynamo, which is a 125 Kilo Watt, multipolar generator. The underground motor is of the Goodman 12-ton type, developing 200 horse power. It is geared to 12 miles an hour. This plant for some reason is not as successful as was expected, but no doubt all difficulties will be overcome in a short time.

The Citizens' Coal Mining company, Lincoln, Logan county, has sunk an additional chamber at its mine, alongside the main shaft, and down to the lake of water, that was encountered, in order to reduce the pressure, and

drain the water out of the main shaft. The company has retimbered the upper part of the hoisting shaft, also raised and repaired, and put a new foundation under the tower.

There have been some improvements in the general condition of many mines during the year, especially in ventilation, and the safety of traveling roads. The operators as a rule have shown a disposition to live up to the requirements of the law, when attention has been called to anything that was contrary to its provisions; in only one instance was it necessary to resort to extreme measures; that was in the case of the Muncie Coal company, Muncie, Vermilion county. This mine was in a very poor and dangerous condition. The management, after repeatedly promising to put the mine in shape, failed to do so, until "forbearance ceasing to be a virtue," I then instituted proceedings in the circuit court of Vermilion county to close the mine, until the company was willing to comply with the law. An injunction was issued against the company by Judge Thompson of that court, Nov. 19, 1902, and the mine was closed. After a few days the company asked permission to reopen the mine and resume work, promising at the same time to comply with all the requirements demanded if allowed to resume work; permission was given, conditional, that the mine be put in good shape and that the company report progress of work being done to the county mine inspector, once every week; this was done for some time when the company again became dilatory and neglectful; however, a letter issued by the court, cautioning the company as to the provisions of the injunction, had the desired effect, and repairing was resumed. The injunction is still in force, but in a short time the condition of the mine will be such that it can be dissolved.

BUSINESS CHANGES.

Jan. 1, 1903, the Himrod Coal company, Danville, disposed of its two mines in Vermilion county, the Pawnee and Himrod, selling the same to the Kellyville Coal company, of that city.

The Taylorville Coal company, Taylorville, has disposed of its mine at Taylorville, selling to the Springfield Coal Mining company, Springfield, Sangamon county.

The Weaver Coal and Coke company is now operating the Springside mine of the Springside Coal Mining company, of Pana, Christian county.

The North mine of the Pana Coal company, after being abandoned for eight years, has been reopened and is being operated by the Newbent Coal company, of Pana, Christian county.

FATAL ACCIDENTS.

The number of fatal accidents has increased in this district from 20 in 1902 to 30 in 1903; about two-thirds of the whole number are from falls of rock and coal. This increase can be accounted for in several ways—first, the increased activity in the mining business over the preceding year; second, the failure of the miners to properly secure their working places, and taking unwarranted risks in order to get a few more tons of coal; the failure of the oper-

ators to maintain discipline among the workmen and the enforcement of the law, requiring employes to properly secure their working places; the mine manager usually contenting himself by telling the miner what he thought was necessary for his safety, and the miner doing what he was told not to do, just as he might choose.

July 9, 1902, Joseph Yutsnukis, aged 24 years, and John Zihawicys, aged 33 years, both miners, and single men, were killed by a fall of rock between nine o'clock and midnight in mine No. 2 of the Brookside Coal company, Grape Creek, Vermilion county. The men were turning a room and had driven the neck ten or twelve feet off from the entry; they knew of the dangerous condition of the roof but failed to secure it; as a result both men lost their lives.

July 18, 1902, Thomas Edwards, engineer, married, was instantly killed by a falling smoke stack at Lovington, Moultrie county. The deceased was in the employ of the Moultrie county Coal company, which was sinking a shaft; the men were engaged placing the hoisting machinery; the boiler was in position, and the stack was being raised. Edwards was overseeing the work, and was in the act of putting a rope around the stack to raise it into position. He placed the hitch below the center of gravity, consequently when the stack was raised from the ground it overbalanced the top, striking one of the guy ropes, breaking it, and letting the stack and pole fall to the ground. In attempting to escape, Edwards became confused and ran directly under the falling stack, with the result as stated. He leaves a widow and one child.

July 28, 1902, John Murray, miner, aged 46 years, married, was fatally injured by a fall of coal while at work in the cross cut off of the main west entry in the Christian county Coal company's mine, Taylorville. Murray had fired a shot on the right hand side of his place, in the top coal; the bottom coal had been taken out three days previous; part of the top coal remained up on the left hand side. The morning of the accident Murray went under this coal to mine, preparatory to firing another shot; while doing so a lump of coal weighing about 1,000 pounds, fell, crushing him underneath, death resulting one hour afterwards. He leaves a widow and six children.

Aug. 22, 1902, John H. Taylor, driver, aged 27 years, married, in the employ of the Himrod Coal company, Himrod, Vermilion county, was killed by a fall of rock and timber. The deceased had been working an extra shift at night, and was on his way out with another driver, having finished their work. The companion driver attempted to have his mule pass between a loaded car and the side of the entry; the spreader caught on a leg, which was supporting a cross-bar, pulling it out, and letting down a large amount of rock. Taylor was standing close to the car, and was caught under the rock, with the result as stated. He leaves a widow and two children.

Oct. 17, 1902, Albert Holcomb, driver, aged 21 years, single, employed at the Himrod Coal company's Himrod mine, Himrod, Vermilion county, while putting sprags in a trip his clothing caught on a car, dragging him quite a distance, when he was crushed between the cars and the rib. He died two days after the accident.

Oct. 25, 1902, Lenodias McNutt, topman, aged 35 years, married, was fatally injured at the Penwell Coal company's mine, Pana, Christian county. The particular duty assigned to McNutt was sending props into the mine, during the day, also to send down feed for the mules. The props and feed are put on the cage at the lower landing; the feed is loaded into a pit-car and pushed onto the cage; a short pair of rails are used to connect the track on the surface with the cage; these rails are secured in place by clamps. McNutt was placing the rails in position, preparatory to sending down the feed; the end of one of the rails projecting over the shaft was struck by the descending cage, causing the other end to fly upwards, which, striking him on the chin and side of the head, fractured his face, and at the same time throwing him into the car on the cage, here his head coming in contact with the covering of the cage, fractured his skull. Death resulted five hours after the accident. He leaves a widow and five children.

Oct. 27, 1902, Dominick Beldona, miner, aged 25 years, single, was instantly killed by a fall of rock in the mine of the Colfax Coal company, Colfax, McLean county. Deceased had fired a shot two days previous on the right side of his room, which knocked out all of the props on that side except the roadside props, for a distance of 12 or 15 feet. During the interval from Saturday, the 25th, to Monday, the 27th, some slate had fallen and a large mass had become loosened at the point where the props had been knocked down; the mine examiner had notified Beldona and his brother, who worked with him, of the condition of their room, and had contracted with them to remove the slate and secure the loose rock above; while at work a large mass of rock suddenly fell, crushing deceased beneath.

Oct. 27, 1902, William Goss, miner, aged 37 years, single, employed at the Himrod mine of the Himrod Coal company, Himrod, Vermilion county, was instantly killed, being struck by an empty mine car. Goss and eight other men were waiting at the bottom of the shaft to ascend, having finished their day's work. There were several loaded pit cars on the track at the bottom of the shaft, the empty car being in front of them. The loaded cars were struck by a trip of three other loaded cars that came down the hill on the southeast main entry; the empty car was forced rapidly onto the men at the bottom of the shaft, sweeping them into the cage seat, the car following them, instantly killing Goss and injuring severely the other eight men.

Nov. 4, 1902, William Lakes, miner, aged 32 years, was killed by a fall of rock in the Himrod Coal company's mine, Himrod, Vermilion county. Deceased, with his partner, was engaged in widening the third southeast entry, for the purpose of extending the double parting. After taking the coal off, a ledge of rock was left hanging, about two feet thick, which they failed to prop securely; the rock suddenly fell with the result stated. He leaves a widow and two children in Russia.

Nov. 5, 1902, William Graham, timberman, aged 53 years, married, in the employ of the Economy Coal company, Danville, Vermilion county, was fatally injured by being caught between the cage and shaft timbers. Deceased, with other men, was engaged in taking timber off of the cage; after

the timber was unloaded, the signal was given to the engineer to take away the cage. Graham attempted to cross over, and was crushed, death resulting four hours after the accident. He leaves a widow and four children.

Nov. 18, 1902, Anton Slaus, miner, aged 45 years, was instantly killed in room 4 on the fifth west southwest entry in the Himrod Coal company's mine, Himrod, Vermilion county. The mine examiner had discovered some loose rock in this room, extending back some 10 or 12 feet from the face; he marked the rock and entered it on the record book, also recommended that some props be set under the rock before any work was done in the room. The assistant mine examiner, when commencing work the morning of the above date, instructed one of the timbermen to proceed to room 4 and notify the men working there to at once put their room in a safe condition, by setting props under the loose rocks; the men promised to do so, but, notwithstanding there was a sufficient number of props in their room, they failed to set any of them and worked all day under the loose rocks. In the meantime, they had prepared two shots to be fired at quitting time, one near the left side of the room, the other about 12 feet to the right, or near the center of the room. At 3:30 p. m. the men lighted the shot on the left side of the room; after this shot had exploded, they returned to the room to fire the remaining shot. Slaus told his partner to stand at the road-head and show him light while he lighted the shot; instead of going to the right side of the room he went to the left where the first shot had been fired, over which was the loose rock, when a mass of rock about seven feet long, four feet wide and one and a half feet thick, fell on him with the result stated. He leaves a widow in Russia.

Dec. 20, 1902, John McNavitch, miner, aged 48 years, married, employed at the Taylorville Coal company's mine No. 1, Taylorville, Christian county, was fatally injured by a fall of clod in room 50 on the sixth east entry. Deceased left his own room and went to room 50 for the purpose of getting some powder due him from a man named Switzer, working in that room; Switzer was tamping a shot on the right side of his room and directly under some loose clod. He asked McNavitch to help him tamp the hole, and he would then get him the powder; before they had finished tamping, the clod, which was about ten feet long, three feet wide, and four and one half inches thick, fell on them, fatally injuring McNavitch and breaking Switzer's leg. The deceased leaves a widow and five children.

Dec. 22, 1902, John Michor, night man, aged 22 years, single, employed in the Pana Coal company's mine, Pana, Christian county, was instantly killed by falling down the shaft of mine No. 1. Deceased and another man were taking off the water box. To place or remove the water box, a pair of skids, about 14 feet long, are used; these skids are run on rollers over the shaft until the ends rest on the opposite sill, when the water box is pushed on them and connected to the cage. Michor and his partner had been sent out of the shaft to take the water box from the cage; they had disconnected the box and had put the skids across the shaft, and lowered the box onto them; the box in some manner could not be moved; while they were trying to pull it off,

Michor went to the opposite side to push the box, the skids moving at the same time, the ends slipped from the sill, the water box tipped over knocking deceased into the shaft and falling with him to the bottom.

Dec. 31, 1902, Stanis Stakoski, miner, aged 26 years, single, employed in the McLean County Coal company's mine, Bloomington, McLean county, was fatally injured by a fall of coal and slate, from the effects of which he died two days afterwards. Deceased had only commenced work in this mine the day before the accident; the second day his partner not being in, he was working alone, and had just begun mining when a piece of coal about seven feet long, two feet wide, with about eight inches of slate sticking to it, fell on him with the result as stated. He was a native of Poland.

Feb. 3, 1903, Dominick Bertoglis, miner, aged 45 years, employed in the Kellyville Coal company's mine No. 3, Westville, Vermilion county, was instantly killed while loading a car of coal. A boulder fell out of the roof, striking him on the head and body. He leaves a widow and one child.

Feb. 5, 1903, John Coalburg, miner, aged 44 years, married, employed at the Kellyville Coal company's mine No. 3, Westville, Vermilion county, was instantly killed by falling coal. Deceased, with his partner, had just started to turn a room off of the 10th north entry; while in the act of throwing tamping into a drill hole, a large mass of rock fell on him with the result as stated. He leaves a widow and seven children.

Feb. 10, 1903, Abe Harrison, miner, aged 38 years, employed in mine No. 5, of the Kellyville Coal company, Westville, Vermilion county, was fatally injured by a fall of rock while at work in the second northwest entry. Deceased was loading a car of coal when a large rock fell, injuring him so severely that he died a half hour afterwards. He was a widower and leaves three children.

Feb. 13, 1903, Louis B. White, miner, aged 42 years, married employed at the Colfax Coal company's mine, Colfax, McLean county, was instantly killed by a fall of a rock while working in his room. Deceased was loading coal into a pit car when a large piece of rock, nine feet long, five and a half feet wide, and six inches thick at one edge, tapering to three inches, suddenly fell on him, crushing him beneath. The mine examiner had reported the room in a safe condition that morning. It was well timbered to within six feet of the face, and gave no indications of any loose rock. This appears to have been an unavoidable accident. He leaves a widow and seven children.

Feb. 26, 1903, Charles Puckel, miner, aged 30 years, married, employed in mine No. 3 of the Kellyville Coal company, Westville, Vermilion county, was instantly killed by a fall of rock in the face of room No. 13 in the 11th north entry. The accident was caused by a roll or rock fault, running across the face of the room. He leaves a widow and one child.

Feb. 27, 1903, James Dunn, miner, colored, aged 26 years, married, employed at the Westville Coal company's mine No. 1, South Westville, Vermilion county, was instantly killed by a fall of rock. Deceased and his partner were drawing pillars in the sixth north entry, when a large mass of rock, about 12 feet long, two to three feet thick, and eight feet wide, fell striking him. He leaves a widow.

March 9, 1903, Charles Golden, miner, aged 32 years, single, employed in the Westville Coal company's mine No. 1, South Westville, Vermilion county, was fatally injured by a fall of rock. Deceased was in the act of tamping a shot when a large rock, which was cut loose by a coal slip, fell on him crushing him so severely that he died before he could be taken out of the mine.

March 17, 1903, John Camiant, driver, aged 23 years, married, employed in the Kellyville Coal company's mine No. 2, Westville, Vermilion county, was crushed between a loaded coal car and the coal rib, sustaining internal injuries from which he died April 14, 1903. Deceased was coming down hill with his trip of loaded cars; in some manner his light was extinguished, the mule crowding him off of the tail chain, and throwing him between the car and rib. He leaves a widow and two children.

March 28, 1903, Magnus Nelson, miner, aged 62 years, married, employed in mine No. 1, of the McLean County Coal company, Bloomington, McLean county, was injured by a fall of coal. He had fired a shot, which failed to break the coal down; he then started to undermine the coal and while doing so it fell on him, crushing him about the hips, and body, and injuring him internally. He died April 1, 1903, leaving a widow and three children, one child dependant.

April 6, 1903, George Baron, miner, aged 24 years, single, employed at Kellyville Coal company's No. 3 mine, Westville, Vermilion county, was instantly killed by flying coal from a shot. Deceased and his partner had prepared four shots which Baron remained to fire; his partner going out of the mine to order timber for their next day's work. Baron had fired three of the shots, and had gone back into the room to fire the fourth. It is not known whether he became confused from the smoke of the other shots, and could not find his way out, or that he lighted the squib too short, and the shot exploded before he could get out of the way.

May 8, 1903, William Peters, miner, aged 60 years, single, was fatally injured by the premature explosion of a powder blast in the mine No. 1 of Christian County Coal company, Taylorville, Christian county. About noon the deceased and his partner proceeded to fire two shots; one on each side of their room; one of the shots was fired and Peters went back to fire the other. It is not known exactly how the last shot was ignited, whether the squib was defective or the deceased, being an old man, became nervous, from the smoke of the other shot, he lighted the match too close to the powder, however, the shot exploded before he could reach a place of safety, injuring him so severely that he died five hours afterwards.

May 12, 1903, Robert Elliott, miner, aged 47 years, employed in the Kellyville Coal company's mine No. 3, Westville, Vermilion county, was instantly killed by a fall of rock. He leaves a widow and one child.

May 15, 1903, Joseph Barber, miner, aged 38 years, single, employed in mine No. 1 of the Westville Coal company, South Westville, Vermilion county, was instantly killed by a fall of rock, while working in his room. He leaves his mother dependant.

May 23, 1903, Charles Edwin Cook, driver, aged 30 years, married, employed in the Kellyville Coal company's mine No. 3, was fatally injured by falling under a loaded pit car. Deceased was riding on the tail chain, when a lump of coal on the track threw him off and in front of the trip, the first car passing over him. He died May 27, 1903, leaving a widow and two children.

June 6, 1903, Charles Roberts, miner, aged 52 years, single, was fatally injured by a fall of rock in mine No. 3 of the Kellyville Coal company, Westville, Vermilion county. The accident occurred about about 2:00 p. m., he died five hours afterwards.

In conclusion I desire to return my sincere thanks to the several county mine inspectors for their able assistance during the year and especially to Daniel Reece of Danville, Vermilion county, and H. C. Newcomb of Pana, Christian county.

Respectfully submitted,

THOMAS WEEKS,

State Inspector of Mines, Fourth District, Bloomington.

Fatal Casualties—Fourth District—July 1, 1903.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widows.	Children.	Single.	Dependents.	Cause of Accident.
1902										
July 9	Jos. Yutnukis	24	Miner	Grape Creek	1	1	1	1	1	Falling rock
9	John Zraawicys	33	do	do	1	1	1	1	1	do
18	Thomas Edwards	34	Engineer	Lovington	1	1	1	1	2	Falling smokestack ..
28	John Murray	46	Miner	Taylorville	1	1	6	7	7	Falling coal
Aug. 22	John H. Taylor	29	Driver	Himrod	1	1	2	3	3	Falling rock
Oct. 17	Albert Holcomb	21	do	Westville	1	1	1	1	1	Pit car and rib
25	Lenodias McNutt	35	Topman	Pana	1	1	5	6	6	Descending cage
27	Dominick Beldona	25	Miner	Colfax	1	1	1	1	1	Falling rock
27	William Goss	37	do	Westville	1	1	1	1	1	Pit car fall'g c'ge seat
Nov. 4	William Lakes	32	do	Himrod	1	1	2	3	3	Falling rock
5	William Graham	53	Roadman	Danville	1	1	4	5	5	Ascending cage
18	Anton Slaus	45	Miner	Himrod	1	1	1	1	1	Falling rock
Dec. 20	John McNavitch	48	do	Taylorville	1	1	5	4	4	Falling clod
22	John Michor	22	Roadman	Pana	1	1	1	1	1	Falling down shaft ..
31	Stanis Stakoski	26	Miner	Bloomingt'n	1	1	1	1	1	Falling coal
1903										
Feb. 3	Dominick Bertoglis	45	do	Westville	1	1	1	2	2	Falling rock
5	John Coalburg	44	do	do	1	1	7	8	8	do
10	Abe Harrison	35	do	Grape Creek	1	1	3	1	3	do
13	L. B. White	42	do	Colfax	1	1	7	8	8	do
26	Charles Puckel	30	do	Westville	1	1	2	3	3	do
27	James Dunn	33	do	do	1	1	1	1	1	do
Mar. 9	Charles Golden	32	do	do	1	1	1	1	1	do
17	John Camiant	23	Driver	Kellyville	1	1	1	2	2	Pit car and rib
28	Magnus Nelson	62	Miner	Bloomingt'n	1	1	3	2	2	Falling coal
Apr. 6	George Baron	24	do	Kellyville	1	1	1	1	1	Powder explosion
May 8	William Peters	60	do	Taylorville	1	1	1	1	1	do
12	Robert Elliott	47	do	Westville	1	1	1	2	2	Falling rock
15	Joseph Barber	38	do	do	1	1	1	1	1	do
25	Chas. Edwin Cook	30	Driver	do	1	1	2	3	3	Pit car
June 6	Charles Roberts	52	Miner	do	1	1	1	1	1	Falling rock
	Total—30	..	..	..	17	17	52	13	66	..

Recapitulation of Fatal Accidents—Fourth District—1903.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Grape Creek...	3	Miners.....	22	Falling rock.....	17	Brookside No. 2.....	2
Lovington.....	1	Engineers.....	1	Falling smoke stack.	1	Moultrie County C. Co..	1
Taylorville....	3	Drivers.....	4	Falling coal.....	3	Christian County C. Co..	2
Himrod.....	3	Topmen.....	1	Falling pit car.....	1	Himrod C. Co.....	5
Westville.....	11	Roadmen.....	2	Falling down shaft..	1	Penwell C. Co.....	1
Pana.....	2			Crushed between car		Colfax C. Co.....	2
Colfax.....	2			and rib.....	2	Economy C. Co.....	1
Danville.....	1			Struck by cage.....	2	Taylorville C. Co.....	1
Bloomington..	2			Powder explosion....	2	Pana C. Co.....	1
Kellyville.....	2			Run over by car.....	1	McLean County C. Co..	2
						Kellyville C. Co.....	9
						Westville C. Co.....	3
Total	30		30		30		30

Non-Fatal Casualties—Fourth District—July 1, 1903.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and Cause of Injury.	Time lost—days.
1902									
July 1	Robert Jones.....	32	Danville....	1			1	Hand injured by pit car.....	35
12	Joseph Jones.....		Lincoln.....		1			Leg broken; falling slate.....	65
15	August Buck.....	18	Danville....		1			Leg broken; falling rock.....	90
16	J. W. Bell.....		Lincoln.....		1			Eye put out, face burned; powder explosion.....	90
24	Thomas Ramsey..	29	S. Danville..	1			1	Leg broken by pit car.....	120
	John Pearson.....	23	Pana.....	1			1	Foot bruised between pit cars	60
Aug. 1	A. J. Myerpeter..	40	Moweaqua..	1		1	2	Eye cut; flying rivet head.....	270
	Ruddy Foster.....	20	Pana.....		1		1	Leg broken by pit car.....	145
5	Gum Kelly.....	30	Danville....	1			1	Hip injured by pit car.....	90
12	Robert Hinson..	25	do.....	1			1	Hips and back injured by pit cars.....	90
12	Frank Miller.....	35	Himrod.....		1			Leg broken; falling rock.....	90
13	Robert Cook.....	19	Grape Creek		1			do.....	90
26	William Roberts.	18	Pana.....		1			Ankle sprained; falling coal..	40
Sept. 15	August Langfelt.	40	Decatur....	1		3	4	Foot injured; falling coal.....	40
17	Bales Chalmes..	23	Himrod.....		1			Leg broken; falling rock.....	90
17	James French....	38	Danville....		1			do.....	90
19	Venango Martin.	45	Assumption..	1		2	3	Leg broken; falling coal.....	223
20	John Sturz.....	59	Lincoln.....	1		3	4	Body cut; falling coal.....	56
27	George Huff.....	25	Georgetown.	1		1	2	Arm broken; falling rock.....	52
Oct. 10	Steve Groves....		Lincoln.....		1			Leg broken; falling slate.....	60
17	James Stack.....	32	Colfax.....	1		2	2	Hips injured; pit car and mule	30
20	J. J. Ryan.....	42	Roanoke....	1		2	3	Leg broken by pit car.....	60
29	E. Gray.....	21	Westville....		1			Hips injured; pit car and rib..	30
31	Oscar Menyel....		Lincoln.....		1			Ankle fractured; falling slate	70
Nov. 8	John Joquint....	40	Kellyville..		1			Foot crushed; falling rock.....	150
15	B. Bently.....	43	Lincoln.....	1			1	Knee-cap injured by cage.....	155
17	Harry Clingan..	19	Grape Creek		1			Leg broken, face injured; falling rock.....	177
22	Peter Resmon....	28	Westville....		1			Body crushed; falling slate.....	60
Dec. 3	John Thompson..	45	Kellyville..	1		2	3	Finger mashed; pit car wheel	60
6	John Watson.....	23	do.....		1			Foot injured; pit car.....	30
16	Joseph Polkimis.	28	Westville....		1			Leg broken; falling coal.....	71
16	Joseph Sponish..	38	do.....		1			Leg broken; flying coal.....	69
20	John Schwetzer..	48	Taylorville..		1			Leg broken by falling clod.....	270
20	Oscar Erricson..	26	Bloomington	1		2	3	Leg injured by tail chain.....	30
22	W. T. Starks.....	38	Georgetown.	1		2	3	Body injured; falling timber..	30
1903									
Jan. 8	Isaac McKee.....	38	Westville....		1			Leg broken; falling rock.....	93
8	William Boyd.....	26	Kellyville..	1		1	2	Foot injured; falling rock.....	90
10	Samuel Simmons	44	Grape Creek	1			1	Leg broken; falling rock.....	120
15	Edward Powers..	40	Decatur....		1			Legs both broken; falling coal	180
19	Zeno Strin.....	38	Kellyville..	1			1	Back injured; falling rock.....	180
21	Herbert Jones...	17	Catlin.....		1			Shoulder dislocated; pit car..	60
23	Fred Gillis.....	25	Danville....	1			1	Leg broken; falling rock.....	90

Non-Fatal Casualties—Fourth District—July 1, 1903—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and Cause of Injury.	Time lost—days.
1903									
Jan. 23	Joseph Klever	19	Pana	1	1			Hip dislocated; falling rock..	50
27	William Sanders	34	do	1				Leg broken; pit car	125
Feb. 5	Peter Ward	75	Decatur	1				Foot injured; falling coal	120
11	Elmer Thomas	36	Kellyville	1		1		Foot injured; falling rock	30
11	James Donavon	35	Pana	1				Arm broken; coal falling down shaft	90
13	Wm. Resinskis	18	Himrod	1	1			Body crushed; pit car and rib	90
15	Thomas Burn	45	Mowesqua	1		2		Eye injured; chip of chisel	60
Mar. 3	Abe Willis	22	Westville	1				Arm broken; pit car	35
5	John Leverenz	53	Danville	1				Face and hand injured by shot	125
11	Joseph Russian	38	Westville	1		3		Leg broken, shoulder bruised; falling coal	150
12	James Hughes	35	Lincoln	1				Back injured; falling slate	180
17	John Garber	34	Danville	1				Hip injured by pit cars	45
31	Frank Cotton	30	do	1				Body injured; pit car and rib	107
Apr. 8	Walter Hockle	17	Pana	1				Thumb cut off by car wheel	60
15	Frank Holmgrew	31	Danville	1				Foot injured; falling rock	40
24	William Clor	40	Pana	1				Ankle dislocated by mule	30
May 7	Peter Tonilla	35	Assumption	1				Wrist dislocated; falling coal	67
1	John Wasig, Jr.	20	Pana	1				Leg broken; falling coal	36
7	Bernit Sanit	30	Catlin	1				Leg broken; falling rock	90
18	Edward Brewer	22	Colfax	1				Ribs broken; pit car and timber	30
25	James Murray	30	Grape Creek	1				Finger injured; falling prop.	45
June 25	Edward Smith	56	do	1				Chest injured; kicked by mule	30
3	Stan Kobazuski	30	Westville	1		2		Leg injured; falling rock	30
5	S. Z. Magee	34	Danville	1				Finger bruised by sprag	30
6	Walter Harris	30	Grape Creek	1		2		Head and body cut; falling from cage	42
8	Frank Holycross	38	Westville	1				Leg broken by pit cars	90
12	George Baker	45	Pana	1				Hip broken and leg bruised; falling coal	90
15	George Pescuhas	40	Kellyville	1				Back injured; falling rock	45
16	William Duck	30	Pana	1				Leg broken by pit car	150
25	Merrit John	35	Westville	1				Leg broken; falling rock	90
26	L. B. Jones	36	Danville	1		1		Shoulder injured by pit car	30
	Totals			35	38	31	66		6270
Total number injured									73
Not recovered July 1, 1903									
Recovered July 1, 1903									73
Time lost by men recovered									6,270 days
Average time lost by men recovered									85.9

Recapitulation of Non-Fatal Casualties—Fourth District—1903.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Danville.....	13	Drivers.....	20	Falling slate.....	5	Kelly's No. 2.....	13
Lincoln.....	7	Miners.....	43	Falling rock.....	21	Citizens' C. Co.....	4
Pana.....	11	Blacksmiths..	1	Falling coal.....	10	Kelly's No. 3.....	6
Moweaqua.....	2	Grippers.....	1	Falling clod.....	2	Pana C. Co.....	3
Himrod.....	3	Laborers.....	2	Falling prop.....	1	Moweaqua C. Co.....	2
Grape Creek..	6	Cager.....	1	Pit cars.....	23	Himrod C. Co.....	7
Decatur.....	3	Trapper.....	1	Powder burn.....	1	Blue Bird C. Co.....	2
Assumption..	2	Engineer.....	1	Rivet head.....	1	Penwell C. Co.....	6
Georgetown..	2	Mine exam'n'r	1	Chisel.....	1	Decatur No. 2.....	3
Colfax.....	2	Switch tender	1	Cage.....	2	Assumption C. Co.....	2
Roanoke.....	1	Timberman...	1	Tail chain.....	1	Westville C. Co.....	6
Westville.....	12			Mule kick.....	2	Colfax C. Co.....	2
Kellyville.....	5			Blown shot.....	1	Roanoke C. Co.....	1
Taylorville.....	1			Sprag.....	1	Lincoln C. Co.....	2
Bloomington..	1			Falling timber.....	1	Taylorville C. Co.....	1
Catlin.....	2					McLean County C. Co..	1
						Brookside No. 2.....	3
						Jones & Adams.....	2
						Mauck Bros.....	1
						Springside C. Co.....	3
						Kelly's No. 4.....	1
						Latham C. Co.....	1
						Kelly's C. Co.....	1
Total.....	73		73		73		73

Table Showing the Number and Nature of Non-Fatal Casualties, Conjugal Relations and Time Lost—Fourth District—1903.

Nature of Injuries.	Number.	Married.	Single.	Dependents.	Time Lost.		Per cent of injuries.
					Total days.	Average days.	
Leg broken.....	26	8	18	15	2,971	114.7	35.62
Face and eye.....	3	2	1	5	420	140	4.11
Hand injured.....	1	1		1	35	35	1.37
Foot injured.....	8	5	3	10	560	70	10.96
Hip injured.....	5	3	2	4	285	56.5	6.85
Hip dislocated.....	1		1		50	50	1.37
Hip broken.....	1	1		1	90	90	1.37
Ankle injured.....	2		2		110	55	2.74
Ankle dislocated.....	1	1		1	30	30	1.37
Arm broken.....	3	1	2	2	177	59	4.11
Kneecap injured.....	1	1		1	155	155	1.37
Body injured.....	6	3	3	8	373	62.1	8.21
Fingers injured.....	3	3		5	135	45	4.12
Thumb cut off.....	1		1		60	60	1.37
Leg injured.....	2	2		6	60	30	2.74
Back injured.....	3	1	2	1	405	135	4.12
Shoulder dislocated.....	1		1		60	60	1.37
Shoulder sprained.....	1	1		2	30	30	1.37
Hand and face injured.....	1	1		1	125	125	1.37
Wrist dislocated.....	1		1		67	67	1.37
Ribs broken.....	1		1		30	30	1.37
Head hurt.....	1	1		3	42	42	1.37
Totals.....	73	35	38	66	6,270	85.9	100.00

Christian County—Fourth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Springfield Coal M. Co....	Taylorville ...	233,068	44,896	147,262	.....	2,350	38,560
2	Christian County Coal Co	do	216,815	69,737	120,630	614	1,687	24,147
3	Penwell Coal Co.....	Pana	141,766	24,373	56,663	6,417	19,071	35,242
4	Springside Coal Co	do	112,389	58,466	29,041	3,262	8,227	13,393
5	Pana Coal Co	do	107,404	8,588	44,035	142	19,352	35,287
6	Assumption C. & M. Co..	Assumption...	85,468	.....	42,958	.....	15,557	26,953
7	Newbent Coal Co.....	Pana	26,653	14,162	6,394	.....	.....	6,107
Totals			923,563	220,222	446,973	10,435	66,244	179,689
LOCAL MINE.								
1	Edinburg Coal Co.....	Edinburg.....	3,000	3,000	.....	.....	.....	.....
Totals—8 mines.....			926,563	223,222	446,973	10,435	66,244	179,689

Mines in 1902, 6.

New mines, 2.

Mines in 1903, 8.

Christian County--Fourth District--Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$196,335	182	93	275	211,308	15,542	6,218	249	233,068	\$0 49	6,396	1	1	1
248,403	166	60	226	211,767	1,271	3,777	186	216,816	49	7,117	2	...	2
148,508	150	75	225	118,635	13,402	9,729	174	139,916	49	750	1	...	3
118,047	132	49	181	107,221	1,568	3,600	150	112,389	49	420	...	...	4
37,962	118	62	180	88,653	5,883	12,868	126	107,404	49	492	1	...	5
166,459	112	69	181	69,730	8,583	7,155	209	85,468	65 ¹ / ₂	186	...	...	6
25,182	75	58	133	23,250	.....	3,403	55	26,653	49	220	.....	.....	7
\$990,896	935	466	1,401	830,564	46,249	46,750	182	921,713	\$0 515	15,581	5	14	
7,500	10	2	12	.....	3,000	.....	100	3,000	49	100	....	....	1
\$998,396	945	468	1,413	830,564	49,249	46,750	.....	924,713	.....	15,681	5	14	

Logan County—Fourth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Latham Coal Co.....	Lincoln.....	146,194	146,194				
2	Lincoln Coal Co.....	do.....	119,662	35,000	54,747		10,000	19,915
3	Citizens' Coal Mining Co.....	do.....	98,335	41,301	39,334	5,516	3,910	8,274
4	Home Coal Co.....	Mt. Pulaski.....	9,060		4,774	900	1,200	2,186
Totals—4 mines.....			373,251	222,495	98,855	6,416	15,110	30,375

Mines in 1902, . 3

New mines, 1.

Mines in 1903, 4.

Macon County—Fourth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	The Decatur Coal Co., 1..	Decatur	46,356	13,401	26,802	.....	3,000	3,153
2	The Decatur Coal Co., 3..	Niantic	32,591	746	24,337	.....	4,973	2,535
Totals			78,947	14,147	51,139	.....	7,973	5,689
LOCAL MINES.								
1	The Decatur Coal Co., 2..	Decatur	51,851	15,023	30,046	.....	3,782	3,000
Totals—3 mines.....			130,798	29,170	81,185	.....	11,755	8,689

Mines in 1902, 3.

Mines in 1903, 3.

Logan County--Fourth District--Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$120,610	126	72	198	137,396	5,189	3,600	250	146,194	\$0 53	6,564	....	1	1
153,845	85	53	138	93,600	21,162	4,900	200	119,662	53	3,900	....	2	2
123,799	75	46	121	88,422	7,970	1,943	262	98,335	53	3,270	....	3	3
12,277	24	9	33	2,259	5,604	1,306	115	9,060	66	475	....	....	4
\$109,531	310	180	490	321,677	39,825	11,749	207	373,251	\$0 54 ⁸ *	14,209	....	7	

Macon County--Fourth District--Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine					Number of fatal.	Number of non-fatal.	
\$73,710	60	41	101	31,000	15,356	.....	250	46,356	\$0 64	.....	....	....	1
37,324	33	19	52	24,548	8,043	.....	191	32,591	47	1,475	....	....	2
\$111,034	93	60	153	55,548	23,399	.....	221	78,947	\$0 57	1,475	....	....	
82,649	80	39	119	.....	51,851	.....	250	51,851	64	.....	....	3	1
\$193,683	173	99	272	55,548	75,250	.....	.....	130,798	.....	1,475	....	3	

* Average of two contract prices, 53c from July 1, 1902, to Apr. 1, 1903; 59c from Apr. 1, 1903, to July 1, 1903.

McLean County—Fourth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	McLean Co. Coal Co.....	Bloomington..	155,122	9,100	112,340	1,022	19,538	13,122
2	Colfax Coal Co.....	Colfax.....	59,189	21,984	19,767	4,206	667	12,565
3	Berwick Coal Co.....	Chenoa.....	6,300	1,500	3,000	.....	900	.....
Totals—3 mines.....			220,611	32,584	135,107	5,228	21,105	26,687

Mines in 1902, 3.

Mines in 1903, 3.

Shelby County—Fourth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Moweaqua C. M. & Mfg. Co	Moweaqua....	95,742	21,535	34,649	13,989	12,122	13,447
2	Charles Michaelis, 1.....	Fancher.....	200		200			
Totals			95,942	21,535	34,849	13,989	12,122	13,647
LOCAL MINES.								
1	B. F. Stretch.....	Shelbyville...	3,520	3,520				
2	Widick Bros.....	Findlay.....	3,296		3,096		200	
3	Mike Brophy.....	Shelbyville...	2,500		2,500			
4	W. F. Gallagher.....	Mode.....	1,500		1,500			
5	John Richardson.....	Shelbyville...	1,000		800			
6	Jesse A. Bowman.....	.. do	391		391			
Totals			12,207	3,520	8,287		200	
Totals—8 mines...			108,149	25,055	43,136	13,989	12,322	13,647

Mines in 1902, 8.

Mines in 1903, 8.

McLean County--Fourth District--Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$217,848	200	80	280	63,000	79,000	13,122	300	155,122	\$0 71	.....	2	1	1
80,336	65	29	94	51,350	5,258	2,581	304	59,189	53	2,381	2	2	2
10,140	10	12	22	1,750	3,950	600	300	6,300	70	1,000	.....	.....	3
\$308,324	275	121	396	116,100	88,208	16,303	301	220,611	\$0.696	3,381	4	3	

Shelby County--Fourth District--Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$120,667	104	40	144	80,921	9,770	5,051	202	60,090	\$0 59	3,200	.....	2	1
400	1	.....	1	120	80	.....	150	200	*	.....	.....	.....	2
\$121,067	105	40	145	81,041	9,850	5,051	202	60,290	\$0 55	3,200	.....	2	
\$8,800	10	2	12	.....	3,520	.....	250	3,520	\$1 50	.....	.....	.....	1
8,140	14	3	17	.....	3,196	100	144	3,296	1 37½	.....	.....	.....	2
6,250	7	3	10	.....	2,500	.....	150	2,500	1 50	.....	.....	.....	3
3,000	8	1	9	.....	1,500	.....	225	1,500	1 25	.....	.....	.....	4
2,400	10	4	14	.....	800	200	200	1,000	1 50	.....	.....	.....	5
978	4	1	5	.....	391	.....	90	391	1 62½	.....	.....	.....	6
\$29,563	53	14	67	.....	11,907	300	176	12,207	\$1 44	.....	.....	.....	
\$150,635	158	54	212	81,041	21,757	5,351	.....	72,497	.....	3,200	.....	2	

* \$2 00 per day.

Vermilion County—Fourth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Kelleyville Coal Co., 3...	Danville.....	448,354	448,354	.....	.....	.....	.....
2	Kelleyville Coal Co., 2...	.. do	406,248	406,248	.....	.....	.....	.....
3	Westville Coal Co., 1....	Westville.....	346,194	302,194	25,000	.....	.....	19,000
4	Kelleyville Coal Co.....	Danville.....	344,769	344,769	.....	.....	.....	.....
5	Kelleyville Coal Co.....	.. do	306,622	306,622	.....	.....	.....	.....
6	Jones & Adams Co., 2....	Catlin.....	156,368	37,169	93,571	.....	1,356	.....
7	Kelleyville Coal Co., 4...	Danville.....	155,265	155,265	.....	.....	.....	.....
8	Brookside Coal M. Co., 2..	.. do	131,861	97,779	23,361	.....	.....	20,721
9	Economy Coal & M. Co. ...	.. do	104,000	104,000	.....	.....	.....	.....
10	Consolidated Coal Co.	.. do	80,455	4,896	59,214	.....	.....	16,345
11	Consolidated Coal Co.	.. do	75,918	75,334	.....	.....	.....	584
12	John O'Connell Coal Co. ...	.. do	65,296	62,664	1,793	.....	.....	834
13	Kelleyville Coal Co., 5...	.. do	53,176	52,793	.....	.....	.....	383
14	Mauck Bros.....	.. do	31,386	.....	17,000	.....	.....	14,386
15	Muncie Coal Co.....	Muncie.....	18,900	16,000	2,000	.....	.....	900
16	Bunting Bros.....	Grape Creek..	10,354	.....	6,212	.....	1,489	2,653
17	Oakwood Coal Co.....	Oakwood.....	6,103	.....	4,509	.....	.....	1,603
18	France Bros.....	Fairmount....	5,000	.....	4,000	.....	660	340
19	Star Coal Co.....	Vandercook..	4,500	4,500	.....	.....	.....	.....
20	Hardy Harris & Sons.....	Fairmount....	2,500	.....	1,600	.....	500	400
21	James Thompson.....	Grape Creek..	2,450	.....	2,300	.....	.....	150
22	Wm. Winhaus.....	Danville.....	1,500	.....	1,500	.....	.....	.....
23	Kistler & Bookmann.....	.. do	1,205	90	786	.....	150	179
24	John Hall.....	Grape Creek..	1,060	700	300	.....	.....	60
25	John Lietard.....	.. do	900	900	.....	.....	.....	.....
26	Blue & Henry.....	.. do	675	450	150	.....	25	50
Totals.....			2,761,059	2,410,727	243,292	.....	4,180	102,860

Vermilion County--Fourth District--Continued.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$421,453	220	150	370	434,743	.....	13,607	277	448,354	\$0 49	9,000	5	5	1
351,873	202	151	353	332,230	8,018	6,000	272	406,248	49	9,000	.....	13	2
322,912	250	97	347	338,354	3,000	4,540	273	346,194	49	9,500	.....	6	3
324,083	353	148	501	342,324	.....	2,445	272	344,769	49	8,400	5	7	4
289,225	277	70	347	301,726	.....	4,896	272	306,622	49	6,855	.....	1	5
164,558	180	88	268	151,416	.....	4,952	225	156,368	49	5,533	.....	2	6
145,949	175	53	228	153,761	.....	1,504	286	155,265	49	3,600	.....	1	7
119,270	158	46	204	127,861	.....	4,000	242	131,861	49	4,396	2	3	8
114,400	125	85	210	102,000	.....	2,000	253	104,000	49	4,000	1	.....	9
86,521	70	41	111	73,248	4,172	3,035	262	80,455	49	3,967	.....	.....	10
82,324	.....	98	98	70,175	2	5,141	134	.....	*	544	.....	.....	11
62,822	68	28	96	62,664	1,798	834	246	65,296	49	2,081	.....	2	12
49,740	110	50	160	52,793	.....	385	166	53,176	49	2,000	1	1	13
28,443	24	9	33	8,500	22,886	.....	275	31,386	49	1,036	.....	1	14
24,375	30	21	51	15,000	2,600	1,400	180	18,900	49	1,200	.....	.....	15
10,559	11	6	17	4,683	5,671	.....	283	10,354	49	330	.....	1	16
7,952	8	2	10	3,000	3,103	.....	200	6,103	49	300	.....	.....	17
6,597	8	2	10	300	4,350	350	200	5,000	55	140	.....	.....	18
5,625	6	2	8	2,250	2,050	200	166	4,500	55	175	.....	.....	19
2,880	6	3	9	300	1,900	300	125	2,500	60	56	.....	.....	29
2,913	4	2	6	2,000	300	150	250	2,450	49	60	.....	.....	21
3,000	2	3	5	150	1,350	.....	150	1,500	55	.....	.....	.....	22
1,517	4	2	6	390	815	.....	141	1,205	55	.....	.....	.....	23
1,257	7	.....	7	700	360	.....	200	1,060	49	25	.....	.....	24
1,125	3	.....	3	900	.....	.....	104	900	49	90	.....	.....	25
669	6	.....	6	450	225	.....	90	675	49	20	.....	.....	26
\$2,661,042	2,307	1,157	3,464	2,641,922	62,500	56,637	242	2,685,141	\$0.505*	72,388	20	43	

* Average of two contract prices—49c from July 1, 1902, to April 1, 1903; 55c from April 1, 1903, to July 1, 1903.

Vermilion County—Third District—Continued.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	E. S. Gray	Danville	30,000	30,000				
2	S. Parle	do	12,000	4,000	5,000			3,000
3	D. A. Jenkins	do	9,094		6,594			2,500
4	Danville Brick & Tile Co.	do	7,000	7,000				
5	Stanbury & Watkins	do	7,000		4,500			2,500
6	William Schafer	Vermilion Hts	6,050	985	3,200		825	1,040
7	Jacob Thompson	Grape Creek	6,004		6,004			
8	Henry Dettman	Mine Valley	5,000	5,000				
9	Carter Bros	R R 8, D'nville	5,000	1,000	2,660			1,340
10	S. M. Hodge & Son	Danville	4,015	1,000	1,815			1,200
11	A. Jones & Sons	Catlin	3,787	417	1,895		757	715
12	Joe Mack	D'nville, R R 1	3,514	3,514				
13	Miller & Splangler	do	3,183	3,183				
14	J. A. Hume	do	3,050	300	2,000	300		450
15	A. H. Bonnett	Blount	3,000		3,000			
16	James Thomas	So. Danville	2,800	2,800				
17	M. C. Wilkinson	Danville	2,700		2,000		300	400
18	John R. Colburn	Vandercook	2,609	521	1,578		246	262
19	Wm. Stine	Danville	1,700		1,134		283	283
20	Morin & Mohaker	do	1,684		1,684			
21	David Lovall	Humerick	1,600		1,600			
22	Joe Bales	Danville	1,525	100	900		150	375
23	S. S. Miller	D'nville, R R 8	1,500		1,500			
24	Rain & Bryan Bros	Grape Creek	1,060		1,060			179
25	J. A. Jones	Humerick	1,019		1,019			
26	F. L. Brannaman	Danville	800		400			400
27	Evan J. Jones	Catlin	775		600		100	75
28	A. Fredrickson	Danville	743		453		73	187
29	Llewellyn & Co.	D'nville, R R 8	600		450			150
30	John Swanson	Danville	587		587			
31	John Woodard	Oakwood	400		300			100
32	S. E. Bryant	Grape Creek	175		150			
33	L. E. Baker	Oakwood	1,000		1,000			
34	Haskins & Son	Grape Creek	1,200		1,200			
Totals			132,174	59,820	54,316	300	2,736	15,002
Totals—60 mines..			2,893,233	2,470,547	297,608	300	6,916	117,862

Mines in 1902, 59.

New mines, 15.

Abandoned mines, 14.

Mines in 1903, 60.

Vermilion County—Third District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$30,000	40	10	50	.....	30,000	.....	200	30,000	\$0 49	1,000	.....	1
15,650	9	5	14	.....	12,000	.....	300	12,000	55	360	.....	12
13,280	15	6	21	.....	9,094	.....	300	9,094	55	360	.....	3
7,000	6	.....	6	.....	.....	7,000	300	7,000	*	.....	.....	4
9,625	9	4	12	.....	7,000	.....	270	7,000	55	90	.....	5
7,227	3	3	6	.....	6,050	.....	280	6,050	55	170	.....	6
7,505	2	.....	2	.....	6,004	.....	300	6,004	55	150	.....	7
6,250	2	2	10	.....	5,000	.....	200	5,000	55	.....	.....	8
5,528	6	2	8	.....	5,000	.....	180	5,000	55	170	.....	9
4,682	6	3	9	.....	4,015	.....	285	4,015	55	130	.....	10
4,861	6	4	10	.....	3,757	30	250	3,787	49	150	.....	11
4,392	9	.....	10	.....	3,514	.....	150	3,514	49	200	.....	12
2,865	4	3	7	.....	3,183	.....	121	3,183	49	170	.....	13
3,665	4	2	6	.....	2,750	300	150	3,050	49	23	.....	14
3,750	10	.....	10	.....	3,000	.....	150	3,000	55	200	.....	15
2,800	2	6	8	.....	2,770	30	225	2,800	55	85	.....	16
3,475	2	2	4	.....	2,700	.....	150	2,700	50	.....	.....	17
2,794	2	3	5	.....	2,609	.....	253	2,609	53	74	.....	18
2,154	3	2	5	.....	1,700	.....	151	1,700	49	45	.....	19
3,368	5	.....	5	.....	1,684	.....	156	1,684	49	45	.....	20
2,000	2	.....	2	.....	1,600	.....	150	1,600	49	.....	.....	21
1,769	2	.....	4	.....	1,525	.....	150	1,525	49	.....	.....	22
1,875	2	.....	3	.....	1,500	.....	200	1,500	.....	.....	.....	23
1,325	2	.....	2	.....	1,060	.....	200	1,060	55	.....	.....	24
1,274	2	.....	2	.....	1,019	.....	150	1,019	49	.....	.....	25
780	2	5	7	.....	800	.....	300	800	49	20	.....	26
670	1	.....	1	.....	700	75	120	775	55	23	.....	27
865	2	.....	2	.....	743	.....	235	743	49	35	.....	28
903	4	2	6	.....	600	.....	112	600	49	24	.....	29
880	2	1	3	.....	587	.....	120	587	49	35	.....	30
550	6	.....	6	.....	400	.....	90	400	75	14	.....	31
194	3	.....	3	.....	175	.....	90	175	75	15	.....	32
1,250	2	1	3	.....	1,000	.....	130	1,000	49	40	.....	33
1,600	2	.....	2	.....	1,200	.....	125	1,200	55	40	.....	34
\$156,711	187	67	254	.....	124,689	7,495	193	132,174	\$0 52	3,668	.....	.....
\$2,817,753	2,494	1,224	3,718	2,641,922	187,189	61,122	.....	2,817,315	.....	76,056	20	43

* \$2.50 per day.

Woodford County—Fourth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
	SHIPPING MINE.							
1	Roanoke Coal Mining Co.	Roanoke.....	119,679	30,327	77,965	.....	1,857	9,530
	Totals .....	.....	119,679	30,327	77,965	.....	1,857	9,530

Mines in 1902, 1.

Mines in 1903, 1.

Woodford County—Fourth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT			Days of active operation.	Tons mined by hand	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.	
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$174,593	210	60	270	105,805	8,098	5,776	213	119,679	\$0 76	.....	....	1
\$174,393	210	60	270	135,805	8,098	5,776	213	119,679	\$0 775*	.....	....	1

* Average of two contract prices, 76 cents from July 1, 1902, to April 1, 1903; 82 cents from April 1, 1903, to July 1, 1903.

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Christian	7	923,563	220,222	446,973	10,435	66,244	113,742	65,947	\$ 990,896
Logan	4	373,251	222,495	98,855	6,416	15,110	24,169	6,206	409,531
Macon	2	78,947	14,147	51,139	.....	7,973	5,688	.....	111,034
McLean	3	220,611	32,584	135,107	5,228	21,105	12,529	14,038	308,324
Shelby	2	95,942	21,535	34,849	13,939	12,122	.....	13,447	121,067
Vermillion	26	2,761,059	2,410,727	243,292	.....	4,150	71,613	31,247	2,661,042
Woodford	1	119,679	30,327	77,965	.....	1,857	3,754	5,776	174,393
Totals and averages	45	4,573,032	2,952,037	1,088,180	36,068	128,591	231,495	136,681	\$4,776,287

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Christian	1	3,000	3,000	.....	.....	.....	.....	.....	\$ 7,500
Macon	1	51,851	15,023	30,046	.....	3,782	3,000	.....	52,649
Shelby	6	12,207	3,520	8,287	.....	200	.....	200	29,568
Vermillion	34	132,174	59,820	54,316	300	2,736	11,655	3,347	156,711
Totals and averages	*42	199,232	81,363	92,649	300	6,718	14,655	3,547	\$276,428
Total district— all mines	87	4,772,284	3,033,400	1,180,829	36,368	135,309	246,150	140,228	\$5,052,715

* One local mine abandoned in Edgar county.

Fourth District—1903—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
935	466	1,401	759,757	70,807	46,249	46,750	182	921,713	1,850	\$0.515	.....	15,551	5	14
310	180	490	300,307	21,370	39,825	11,749	207	373,251	.....	.548	.....	14,209	...	7
93	60	153	55,548	.....	23,399	.....	221	78,947	.....	.57	.....	1,475	...	...
275	121	396	69,949	46,152	88,208	16,303	301	220,611	.....	.696	.....	3,391	4	3
105	40	145	66,490	14,551	9,850	5,051	202	60,290	35,652	.55	\$0.475	3,200	...	2
2,307	1,157	3,464	2,607,922	34,000	62,500	56,637	255	2,685,141	75,918	.505	*	72,388	20	43
210	58	270	100,526	5,279	8,098	5,776	213	119,679	.....	.775	.....	.....	...	1
4,235	2,084	6,319	3,960,498	192,159	278,129	142,266	210	4,459,632	113,420	\$0.529	\$0.475	110,234	129	70

Fourth District—1903—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
10	2	12	.....	.....	3,000	.....	100	3,000	.....	\$0.505	.....	100	...	...
80	39	119	.....	.....	51,851	.....	250	51,851	.....	.64	.....	.....	...	3
53	14	67	.....	.....	11,907	300	176	12,207	.....	1.44	.....	.....	...	...
187	67	254	.....	.....	124,689	7,485	199	132,174	.....	.52	.....	3,668	...	...
330	122	452	.....	.....	191,447	7,785	194	199,332	.....	\$0.61	.....	3,768	...	3
4,565	2,206	6,771	13,960,498	192,159	469,576	150,051	.....	4,658,864	113,420	.....	.....	114,002	30	73

* Day labor.

† One man killed at Lovington, Moultrie county. See Fatal Accident Table, Fourth District.

‡ 7,000 tons mined at \$2.50 per day.

FIFTH INSPECTION DISTRICT—1903.

TWENTIETH ANNUAL REPORT.

Counties—Brown, Calhoun, Green, Jersey, Macoupin, Montgomery, Morgan, Sangamon, Scott.

WALTON RUTLEDGE, *Inspector*, Alton.

HON. DAVID ROSS, *Secretary*

State Bureau of Labor Statistics, Springfield, Ill.

SIR—In compliance with the statute of the State, defining the duties of the State Inspector of coal mines, I have the honor to herewith submit the 20th annual report of the coal mines in the fifth inspection district, for the year ended June 30, 1903. The tabular statements in this report show the number of mines, also the number of new mines, and the number of abandoned mines; the number of shipping mines and local mines; the total output in tons of 2,000 pounds; the production in tons of the various grades; the average value of coal per ton at the mines, with the aggregate value of the total product; the number of miners and other employes in and around the mines; the number of accidents, both fatal and non-fatal that have occurred during the year; the number of tons of coal loaded on the cars for shipment; the number of tons supplied to locomotives, the number of tons sold to the local trade and the number of tons consumed or wasted at the mines; the tons of coal mined by hand and the tons mined by machines; the number of kegs of powder used for blasting coal and for other purposes; the value of the different grades of coal per ton at the mines, and the prices paid per ton for mining.

The following is a summary of the various tables found in the report:

Number of mines.....	101
Number of new mines.....	11
Number of abandoned mines.....	9
Number of shipping mines.....	46
Number of mines in local trade.....	55
Total tons produced.....	7,070,903
Tons of mine-run coal.....	2,102,570
Tons of lump coal.....	3,251,427
Tons of egg coal.....	106,752
Tons of nut coal.....	239,755
Tons of screenings (pea) coal.....	985,488
Tons of slack or waste coal.....	384,911
Average value of mine-run coal, shipping mines.....	\$0.95
Average value of lump coal at the mine, shipping mines.....	\$1.18
Average value of egg coal, shipping mines.....	\$1.11
Average value of nut coal, shipping mines.....	\$0.94
Average value of screenings (pea) coal, shipping mines.....	\$0.535

Average value of waste or duff, shipping mines.....	\$0.362
Aggregate value of total product, all mines.....	\$6,868,170
Number of miners.....	5,755
Others employed underground.....	1,549
Boys employed underground.....	255
Employés above ground.....	843
Total number of employés.....	8,393
Tons loaded on cars for shipment.....	6,197,834
Tons supplied to locomotives at mines.....	198,827
Tons sold to local trade.....	420,867
Tons consumed or wasted at mines.....	253,375
Average number of days in operation, shipping mines.....	224
Tons mined by hand.....	4,581,645
Tons mined by machines.....	2,499,258
Price paid per ton for hand mining at shipping mines from July 1, 1902, to Apr. 1, 1903.....	\$0.497
Price paid per ton for hand mining at shipping mines from Apr. 1, 1903, to July 1, 1903.....	\$0.557
Average price paid per ton for hand mining at shipping mines.....	\$0.507
Price paid per ton for machine mining from July 1, 1902, to April 1, 1903, at shipping mines.....	\$0.42
Price paid per ton for machine mining, shipping mines, from Apr. 1, 1903, to July 1, 1903.....	\$0.48
Average price paid per ton for machine mining, at shipping mines.....	\$0.435
Number of kegs of powder used for blasting coal.....	191,348
Number of kegs of powder used for other purposes.....	20
Number of fatal accidents.....	26
Number of non-fatal accidents.....	68
Total number of accidents.....	94
Number of employés to each fatal accident.....	323
Number of employés to each non-fatal accident.....	123
Tons of coal produced to each fatal accident.....	271,958
Tons of coal produced to each non-fatal accident.....	103,984
Number of steam boilers used at the mines.....	204
Number of coal cutting machines.....	139
Number of coal cutting machines operated by compressed air.....	104
Number of coal cutting machines operated by electricity.....	35
Number of mines using electric haulage.....	5
Number of traction motors.....	4
Number of third rail motors.....	1
Number of mines using tail rope haulage.....	3
Number of mines using endless rope haulage.....	2
Rate of fatal accidents per 1,000 persons employed.....	3.1

Comparative table showing the output of the several producing counties in the district with the loss or gain in each for the years June 30, 1902, and June 30, 1903.

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL IN TONS.		Increase.	Decrease.
	1902	1903		
Sangamon.....	3,672,987	4,386,526	713,539	.....
Macoupin.....	2,075,253	2,223,055	147,802	.....
Montgomery.....	419,810	420,312	502	.....
Scott.....	23,937	23,370	.....	567
Calhoun.....	3,429	4,928	1,499	.....
Greene.....	9,491	4,497	.....	4,994
Morgan.....	3,310	3,840	530	.....
Jersey.....	3,053	2,790	.....	263
Brown.....	2,116	1,585	.....	531
Total.....	6,213,396	7,070,903	863,872	6,355
Total net increase.....			857,517 tons.	

The district shows an increase of 857,517 tons, which is largely due to Sangamon county. This county alone gives an increase of 713,539 tons. Macoupin county shows an increase 147,802 tons.

GENERAL IMPROVEMENT IN AND ABOUT THE MINES DURING THE YEAR.

The Consolidated Coal company, St. Louis, Mo., has done an extensive amount of grading in the underground works of its No. 10 mine, Mount Olive, Macoupin county, and has retimbered both the No. 8 and No. 10 shafts. New dump cages have also been put into these mines.

The Weaver Coal and Coke company, Nilwood, Macoupin county, has retimbered the hoisting shaft of its mine at that place from top to bottom.

The Greenridge Mining company, Greenridge, Macoupin county, has put two new boilers in its mine.

The Girard Coal company, Girard, Macoupin county, has put in new boilers, retimbered the air shaft from top to bottom, put up a new boiler house, improved the tower and has put in new track scales.

The Chicago-Virden Coal company, Virden, Macoupin county, has put in two new boilers at its No. 3 mine at Chatham.

The Auburn and Alton Coal company, Auburn Sangamon county, has put in a 20-foot fan at the air shaft of the mine and built a brick fan house.

The Victor Coal company, Pawnee, Sangamon county, has put in a 20-foot fan at the air shaft of its mine and built a brick fan house.

The Springfield Coal and Mining company, Springfield, Sangamon county, has put in two new boilers at its No. 4 shaft, and has retimbered parts of its No. 2 and No. 5 shafts. The company has also put in a 20-foot fan at its No. 1 shaft and built a brick fan house.

The Springfield Coöperative Coal company, Springfield, Sangamon county, has erected a new 20-foot fan at its mine, which has largely increased the ventilation. The company has also put in two new boilers.

The Spaulding Coal company, Spaulding, Sangamon county, has put in new dump cages and shaking screens, and improved the tower of its No. 2 mine at Bissell.

The Montgomery Coal company, Paisley, Montgomery county, has put in new dump cages, shaking screens and improved the tower of its mine at that place.

The Madison Coal company, has retimbered the air shaft of its No. 5 mine at Mt. Olive, Macoupin county, and put up a new tower at the escapement shaft.

The Barclay Coal and Mining company has installed the Morgan third rail motor for hauling, in its mine at Barclay, Sangamon county, and has also rebuilt the tower at this mine and put in a weighing hopper.

MINE FIRE.

SHAFT, TOWER, ENGINE AND BOILER HOUSE DESTROYED BY FIRE.

The top works of the Sangamon Coal company, were destroyed by fire February 21, 1903. The engine house, boiler house, carpenter and blacksmith

shops were burned and the fire extended down into the hoisting shaft, burning the curbing which caused the top part of the hoisting shaft to cave in; a number of men were working on repairs in the night shaft. They came out through the stairway at the escapement shaft. The mine is now working as usual. A steel tower has been erected and brick buildings have been erected for the engine, boiler, carpenter and blacksmith shops. A new pair of first motion engines, 18 by 32 inches, built by the *Ætna Foundry and Machine shop*, Springfield, Ill., have been put in for hoisting. The plant on the surface is now first-class in every particular.

NEW AND PROSPECTIVE MINES.

A new mine has been sunk on the line of the Cincinnati, Hamilton & Dayton railroad, about two and one-half miles east of the corporate limits of the city of Springfield, Sangamon county, by the Tuxhorn Coal company. It is intended by the owners to make this a model shaft. The main hoisting shaft is now down, and through the coal; the air and escapement shafts are not down but will be started in the near future.

A new shaft in Sangamon county, two miles north of the State Fair grounds, is being sunk. It is on the line of the Chicago & Alton railroad. The name of the company is the Chicago and Springfield Coal company. This is a fine location for a shaft and it is the intention of the owners to equip the plant in first-class style.

A new shaft is being sunk on the line of the Chicago & Alton railroad, about one and three-fourths miles south of Sherman, Sangamon county. The name of the new firm is the Peabody Coal company. It is the intention of this company to put up a plant for a large output; a steel tower will be erected and all the latest modern appliances put up to handle large quantities of coal at a minimum cost.

A new shaft is being sunk about two miles west of the city of Virden, Macoupin county. Connection to the mine will be made by a spur from the Chicago, Burlington & Quincy railroad. The company will be known as the Royal Colliery company. The hoisting, air and escapement shafts are being sunk simultaneously.

A new shaft is being sunk about two and one-half miles south of Gillespie, Macoupin county. The name of the firm is the Superior Coal company. The company intends to go largely into the coal business; plans are made for three different shafts, all the latest improvements for the handling and mining of coal will be introduced. A town site has been laid out.

The Consolidated Coal company of St. Louis, Mo., is sinking a new shaft at Staunton, Macoupin county. The shaft is located about one and one-half miles northwest of their old No. 5 mine; a spur will be run to the mine from the Wabash railroad. It is the intention of the company to make this mine first-class in every particular. It will be known as No. 14.

Plans and specifications are being made for a new shaft at Cora, on the line of the Chicago, Peoria & St. Louis railroad. It is about eight miles north of Springfield. This company is incorporated under the name of the Cora Coal and Mining company.

A new coal company has been incorporated since the last report, under the name of the Springfield Coal and Mining company. This company has bought the mines of the Riverton Coal company, Starnes Coal company, Black Diamond Coal company, and the Junction Mining company. The president of the company is J. A. Agee; D. D. Shumway, general manager; Wm. A. Jess, secretary and treasurer. The Riverton mines will be known as Nos. 1 and 2; the Starnes' mine as No. 3; the Black Diamond mine as No. 4, and the Junction mine as No. 5.

Kortkamp Coal company, recently formed, is sinking a new shaft on the line of the C., C., C. & St. L. R. R., two miles east of Hillsboro, Montgomery county. The company expects to reach the coal early in July of this year.

The Nilwood Carbon Coal company of Nilwood, Macoupin county, has sold its mine. The mine will hereafter be operated by the Weaver Coal and Coke company.

EXPLOSIONS IN MINES DURING THE YEAR.

There have been two explosions in the mines in this district during the past year, caused by "windy" shots.

The first explosion occurred at the mine of the Victor Coal company, Pawnee, Sangamon county, Oct. 13, 1902, at firing time, about 4:00 o'clock in the afternoon, whereby two men and a boy lost their lives.

The explosion was in room 17 of the first east entry on the south side of the shaft; the room, at the face, was 27 feet wide extending 97 feet back from the entry. The entrance to room 17, was 1,336 feet from the hoisting shaft, 160 feet from the face of the entry, and 750 feet from the air shaft.

The fan was blowing air down the air shaft at the time of the explosion at the rate of about 28,400 cubic feet per minute, and this quantity of air was passing the mouth of room 17.

A large shot had been fired on the right hand side of this room, the shot was 7 feet wide at the heel and 9 feet wide at the toe; the drill hole was 8 feet deep. This was an unusually large shot, consequently there must have been a very large quantity of powder used in preparing the blast. On examination after the explosion the coal was found to be cracked on the rib also at the drill hole, and slightly cracked at the back of the shot, but the coal was not dislodged.

About 33 feet back from the face of room 17 a cross-cut was being driven to the right to connect with room 18, however, this room had fallen in; the cross-cut was being driven to strike the face of room 18.

A second shot had been fired about the same time on the right hand side of this cross-cut, this shot had blown its tamping; it had been drilled into the solid and there was no chance for it to dislodge the coal. About 14 inches was blown off the face at the hole; the shot also blew through into room 18, a distance of 16 feet.

These two heavy shots going off at about the same time evidently produced the explosion, and both shots striking each other at right angles, caused the carbonic oxide gases from the shots to ignite from the flames. The burning vapor issued out of the room, and along the first and second entries. Two cross cuts were open at the face of these entries; five stoppings between the entries were blown down, which was a very fortunate occurrence, as it permitted the expanding of the blast at the face of the entries.

The concussion was felt very heavily at the bottom of the hoisting shaft; most of the miners were congregated there waiting to be hoisted to the surface, and unmistakably the blowing out of the stoppings gave vent to the flames, and force of the explosion, otherwise the blast would certainly have killed most of the men congregated at the bottom of the hoisting shaft.

W. D. Overcash, who fired the shot in room 17 was found dead about 300 feet back from the entrance to this room; his body was severely burned and bruised.

Michael Yoji was found dead in the second east entry, presumably had been suffocated by the after damp.

The boy, Frank Isaacs, was found at his trap door, 950 feet from the entrance into room 17; this door was on the first east entry on the north side of the shaft; it seems that the boy had been in the act of opening the door to let a trip pass through, and that the force of the explosion caught the door and crushed his body between the door and the post of the door frame; his body was so bruised that he died shortly afterwards.

The second explosion was in the Auburn and Alton Coal company's mine, at Auburn, Sangamon county. This explosion occurred Feb. 25, 1903, at 15 minutes to 7:00 o'clock, p. m., and resulted in the killing of two shot firers Matt Donelly, and Thomas McLaughlin, and one driver Walter Davis, six mules were also killed. The explosion took place in the second working room, on the second south entry. This room was very dry and dusty; two large blasts had been fired in this room; one on the right hand side in the lower part of the coal seam, and the other in the top coal, that had been left up and back from the working face. Both of these shots had been largely overcharged with powder, and must have been fired almost simultaneously, as the blown coal was nearly all reduced to slack or fine coal.

The carbonic oxide gases given off by these shots, took fire from the flame of the shots; the force of the blast raising the fine dry coal dust in the room, and with the dust from the shots, which also ignited, greatly intensifying the explosion.

The flame from these blasts passed through a cross cut into the room adjoining where other shots had been previously fired; the gases from these shots also took fire, which, with the force of the explosions and flames, passed out into the entry. Near the mouth of the room, in which the explosion took place, and on the entry, a box containing powder, was blown to pieces, the powder exploding greatly increased the force of the blast. Two mine cars standing on the entry were blown to pieces. The fan was blowing a direct current of air down the air shaft; about 16,000 cubic feet per minute was passing in the first and second south entries; the force of the blast went against this current of air, and forced the doors off of the top of the air shaft; fortunately however, the fan was located back from the air shaft and was not damaged. The flames following the explosion passed out on the return entry for a distance of 600 feet, the bodies of the two shot firers, Mathew Donelly and Thomas McLaughlin, and the driver, Walter Davis, were found at this point.

The force of the explosion had evidently hurled these men a great distance along the entry as their bodies were terribly mangled and burned. A dead mule was found at this point. The after damp coming from the explosion, killed five mules in the stables near the bottom of the hoisting shaft.

In view of these accidents as described, and the loss of life thereby, it would seem very desirable and important that both the mine owners and miners, take up this matter with the manufacturers of blasting powder, and urge and insist that a powder be produced that will not engender or give off a flame of such volume, and that will be much safer to use in blasting coal. If this matter be neglected, there is great danger that other explosions may take place, attended with unusual loss of life. However, the most important line of action is to devise at an early day, some means to put an immediate check to the reckless and extravagant use of powder, which has developed in the last three years.

All coal should be undercut or sheared before blasting, except in machine mines, where very little shearing or undercutting is done. In former years the miner used his pick to undercut or shear the coal so as to give the shots a chance to blow the coal; at the present time the pick is very seldom used.

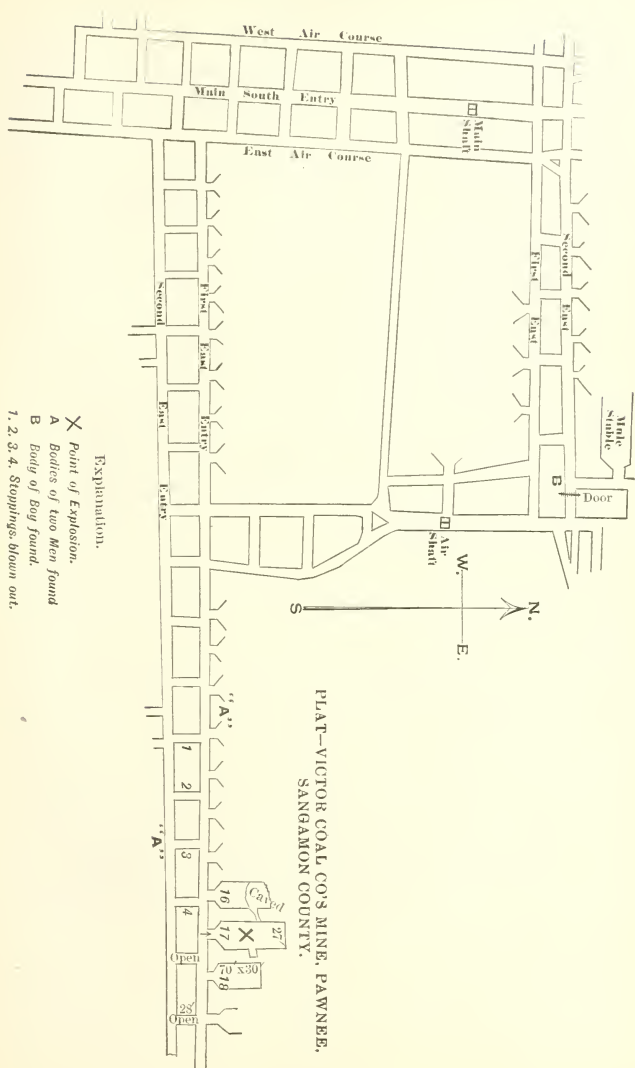
In blasting off of the solid, one-third of the coal is generally slack or fine coal, and from 80 to 100 pounds of the fine dust is given off by each shot, which makes blasting extremely dangerous, where tight shots are fired.

The recent joint action of the operators and mine workers in securing an amendment to the mining law regarding the quantity of powder to be used in the preparation of shots is very commendable, and will prove a valuable aid to the mine management in preventing the reckless use of powder; no possible law or set of laws, however, will instruct an inexperienced miner or give him good judgment in locating his shots, or teach him how much powder to use in preparing a shot.

A hole may be drilled and charged according to law and yet be exceedingly dangerous; blown out shots are frequent, and so called windy shots are almost of daily occurrence in this district.

The recent amendment to the mining law as regards blasting, will be of little value unless operators, mine officials, inspectors and miners determine that it must be enforced, for their mutual protection, and for the best interests of all persons working in the mines.

During the last three or four years the work of blasting down the coal has been done in a reckless and dangerous manner; in a number of mines in the district, viz: Victor Coal company; Auburn and Alton Company; Chicago-Virden Coal company at Auburn and Chatham, and the Cantrall Coöperative Coal company; at these mines the employés were afraid to be in the mine during blasting time, hence the operators and miners have agreed to employ shot firers, from two to four men at each of those mines, to fire all the shots, after all other employés are out of the shaft. Any shot not properly placed to blow down the coal in a safe condition will not be fired by the shot firers. This has improved the conditions at these mines. However, the life of the shot firer is always in danger.



FATAL ACCIDENTS.

The following is a detailed statement of the fatal accidents, which have occurred in the fifth inspection district for the year ending June 30, 1903:

July 2, 1902, Charles Moore, miner, aged 24 years, single, was killed in Barclay Coal and Mining company's mine, Barclay, Sangamon county, by a premature blast.

July 16, 1902, Edward Bradley, driver, aged 22 years, single, was crushed by mine cars, in the Chicago-Virden Coal company's mine, No. 2, Auburn, Sangamon county; he died July 25, 1902.

Aug. 2, 1902, James Marsh, driver, aged 32 years, married, was crushed between mine cars, at the Victor Coal company's mine, Pawnee, Sangamon county, and died the same day. He leaves a widow and one child.

Aug. 28, 1902, John Mullen, miner, aged 28 years, married, was injured by a premature blast, in the Cantrall Coöperative Coal company's mine, Cantrall, Sangamon county; he died two days afterwards, leaving a widow.

Sept. 5, 1902, Bert Quamma, driver, aged 18 years, single, was killed in the Madison Coal company's mine No. 1, Divernon, Sangamon county, by being crushed by a mine car.

Oct. 13, 1902, William D. Overcash, miner, aged 40 years, single, was killed in the Victor Coal company's mine, Pawnee, Sangamon county, by an explosion caused by improper blasting.

Oct. 13, 1902, Micheal Yoji, miner, aged 30 years, single, was killed in the Victor Coal company's mine, Pawnee, Sangamon county, caused by improper blasting.

Oct. 13, 1902, Frank Isaacs, trapper, aged 14 years, was killed in the Victor Coal company's mine, Pawnee, Sangamon county, by an explosion, caused by improper blasting.

Oct. 21, 1902, Daniel Raey, miner, aged 46 years, was killed in the Riverton Coal company's No. 2 mine, Riverton, Sangamon county, by a premature blast. He leaves a widow and four children.

Nov. 5, 1902, John Roberts, miner, aged 46 years, single, was killed in the Trutter Coal company's mine, Pleasant Plains, Sangamon county, by falling clod.

Nov. 12, 1902, William Travel, miner, aged 41 years, married, was killed in the Montgomery Coal company's mine, Paisley, Montgomery county, by falling clod. He leaves a widow and four children.

Nov. 19, 1902, Fred Furtkamp, loader, aged 19 years, single, was killed in the Consolidated Coal company's mine No. 6, Staunton, Macoupin county, by falling coal and clod.

Dec. 3, 1902, William H. Skinner, miner, aged 56 years, married, was killed in the Greenridge Mining company's mine, Greenridge, Macoupin county, by falling coal and slate. He leaves a widow and four children.

Dec. 16, 1902, N. Bicascis, miner, aged 30 years, single, was killed in the Riverton Coal company's mine No. 2, Riverton, Sangamon county, by a premature blast.

Jan. 9, 1903, John Marquis, miner, aged 23 years, single, was killed in the Consolidated Coal company's mine No. 7, Staunton, Macoupin county, by falling coal and slate.

Feb. 6, 1903, George Harris, surface laborer, aged 21 years, married, was fatally injured, being caught by a falling prop, at the Madison Coal company's mine No. 6, Divernon, Sangamon county. His death occurred one week after the accident. He leaves a widow.

Feb. 25, 1903, Mathew Donelly, shot firer, aged 38 years, married; Thomas McLaughlin, shot firer, aged 51 years, married, and Walter Davis, driver, aged 25 years, single, were killed by an explosion in the Auburn and Alton Coal company's mine, Auburn, Sangamon county. The explosion was caused by the excessive use of powder, and the rapid firing of shots. The gases liberated by the powder and the fine coal dust given off by the shots at the working faces, taking fire, causing a very serious explosion. Donelly leaves a widow and four children, and McLaughlin a widow and three children.

Feb. 27, 1903, August Motley, miner, aged 48 years, married, and Thomas McDonald, miner, aged 36 years, married, were both killed in the Springfield Coal and Mining company's No. 4 mine, Springfield, Sangamon county. They were suffocated by gases given off from shots they had just fired.

March 28, 1903, Walter Sheehan, miner, aged 26 years, single, was killed by a premature blast in the Jones and Adams Coal company's mine, Springfield, Sangamon county.

April 8, 1903, Emil Stein, loader, aged 21 years, single, was killed by a fall of slate, in the Consolidated Coal company's No. 7 mine, Staunton, Macoupin county.

April 24, 1903, John Painer, miner, aged 30 years, married, was killed by the explosion of a keg of powder in the Chicago-Virden Coal company's mine No. 3, Chatham, Sangamon county. He leaves a widow and one child.

May 8, 1903, Jacob Price, timberman aged 38 years, married, was fatally burned by an explosion of fire damp in the Chicago, Wilmington and Vermillion Coal company's mine, Thayer, Sangamon county. He died May 14, 1903. He leaves a widow and three children.

June 15, 1903, Joseph Scattergood, cager, aged 26 years, married, was injured by coal falling down the shaft and striking him on the head. The accident occurred in the Wabash Coal company's mine, Dawson, Sangamon county, he died June 19, 1903. He leaves a widow and two children.

The regular tables of fatal and non-fatal accidents and the county schedules follow.

Respectfully submitted,

WALTON RUTLEDGE,

State Inspector of Mines, Fifth District, Alton.

Fatal Casualties—Fifth District—July 1, 1903.

Date.	Name.	Age	Occupation.	Residence (town)	Married	Widow.	Children	Single.	Dependents	Cause of Accident.
1902										
July 2	Chas. Moore.....	24	Miner.....	Barclay.....	..	..	..	1	..	Premature blast.....
16	Ed Brady.....	22	Driver.....	Auburn.....	..	..	..	1	..	* Pit cars.....
Aug. 2	Jas. Marsh.....	32	.. do.....	Pawnee.....	1	1	1	..	2	† Pit cars.....
28	John Mullen.....	28	Miner.....	Cantrall.....	1	1	..	..	1	‡ Premature blast.....
Sep. 5	Bert Quamma.....	18	Driver.....	Divernon.....	..	..	..	1	..	Pit cars.....
Oct. 13	W. D. Overcash.....	40	Miner.....	Pawnee.....	..	..	..	1	..	Windy shot.....
13	Mich. Yoji.....	30	.. do.....	.. do.....	..	..	..	1	..	.. do.....
13	Frank Isaacs.....	14	Trapper.....	.. do.....	..	..	..	1	..	.. do.....
21	Dan Raey.....	46	Miner.....	Riverton.....	1	1	4	..	5	Premature blast.....
Nov. 5	John Roberts.....	46	.. do.....	P. Plains.....	..	..	..	1	..	Falling clod.....
12	Wm. Travel.....	41	.. do.....	Falsley.....	1	1	4	..	5	Falling coal.....
19	Fred Furtkamp.....	19	Loader.....	Staunton.....	..	..	..	1	..	Falling coal and clod.....
Dec. 31	Wm. H. Skinner.....	56	Miner.....	Greenridge.....	1	1	4	..	5	Falling coal and slate.....
16	N. Bicsacs.....	30	.. do.....	Riverton.....	..	..	..	1	..	Premature blast.....
1903										
Jan. 9	John Marquis.....	23	.. do.....	Staunton.....	..	..	..	1	..	Falling coal and slate.....
Feb. 6	Geo. Harris.....	21	Top laborer.....	Divernon.....	1	1	..	1	2	Falling props.....
25	Matt. Donelly.....	38	Shot firer.....	Auburn.....	1	1	5	..	6	Explos'in, windy shot.....
25	Thos. McLaughlin.....	51	.. do.....	.. do.....	1	1	3	..	4	.. do.....
25	Walter Davis.....	25	Driver.....	.. do.....	..	..	..	1	..	.. do.....
27	August Motley.....	48	Miner.....	Springfield.....	1	1	3	..	4	Suffocated, smoke and gas.....
27	Thos. McDonald.....	36	.. do.....	.. do.....	1	1	..	..	1	.. do.....
Mar. 28	Walter Sheehan.....	26	.. do.....	.. do.....	..	..	..	1	..	Premature blast.....
Apr. 8	Emil Stein.....	21	Loader.....	Staunton.....	..	..	..	1	..	Falling slate.....
24	John Painer.....	30	Miner.....	Chatham.....	1	1	1	..	2	Explosion, keg of powder.....
May 8	Jacob Price.....	38	Timberman.....	Thayer.....	1	1	3	..	4	Fire damp.....
June 15	Joseph Scattergood.....	26	Cager.....	Dawson.....	1	1	2	..	3	Coal falling down shaft.....
	Total—26.....	..	.....	.....	13	13	30	13	43	

* Died July 25, 1902.

† Died Aug. 2, 1902.

‡ Died Aug. 30, 1902.

§ Died Feb. 13, 1903.

|| Died May 14, 1903.

¶ Died June 19, 1903.

Recapitulation of Fatal Casualties—Fifth District—1903.

Residence.	No.	Occupation.	No.	Nature of Casualties.	No.	Colliery.	No.
Barclay.....	1	Miners.....	14	Premature blast.....	5	Barclay Coal Co.....	1
Anburn.....	1	Drivers.....	4	Mining cars.....	3	Chicago-Virden Coal Co	1
Pawnee.....	4	Trappers.....	1	Windy shot.....	2	Chicago-Virden Coal	1
Cantrall.....	1	Loaders.....	2	Falling clod.....	2	Co., No. 3.....	1
Divernon.....	2	Topmen.....	1	Falling coal.....	3	Victor Coal Co.....	4
Riverton.....	2	Shot firers.....	2	Falling slate.....	2	Cantrall Co&p. Coal Co.	1
Pleas, Plains.	1	Timberman..	1	Falling prop.....	1	Madison Coal Co., No. 6.	2
Paisley.....	1	Cager.....	1	Powder explosion....	1	Riverton Coal Co.....	2
Staunton.....	3			Fire damp.....	1	Trutter Coal Co.....	1
Greenridge.....	1			Suffocation.....	1	Montgomery Coal Co....	1
Springfield.....	3				2	Consolidated Coal Co.,	
Chatham.....	1					No. 6.....	1
Thayer.....	1					Greenridge Mining Co..	1
Dawson.....	1					Consolidated Coal Co.,	
						No. 7.....	1
						Auburn & Alton Coal Co	3
						Springfield Coal & Min-	
						ing Co., No. 4.....	1
						Springfield Coal & Min-	
						ing Co., No. 6.....	1
						Springfield Coal & Min-	
						ing Co., No. 7.....	1
						Jones & Adams.....	1
						Chicago, W. & V. Coal	
						Co.....	1
						Wabash Coal Co.....	1
Totals.....	26		26		26		26

Non-Fatal Casualties—Fifth District—July 1, 1903.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent	Character and Cause of Injury.	Time lost—days.
1902									
July 7	Robt. Bailey.....	60	Virden.....	1	.....	.....	1	Body bruised; premature blast	30
8	Adolph Kanton ..	22	Mt. Olive.....	.....	1	.....	.....	Body bruised; falling slate....	30
10	Joe Trickelton ..	20	Auburn.....	.....	1	.....	.....	Body bruised; falling coal.....	38
25	Tony Ketchmarik	24	Girard.....	1	.....	.....	1	Leg broken; pit car.....	60
Aug. 24	Geo. Stutzman...	29	do.....	1	.....	3	4	Body scalded; bursting steam pipe.....	62
28	K. R. Hart.....	40	Hillsboro.....	1	.....	3	4	Body bruised; falling coal.....	90
Sept. 2	Matt Bowers.....	20	Spaulding.....	.....	1	.....	.....	Leg broken; pit car.....	65
5	Chs Hedley.....	30	Hillsboro.....	1	.....	2	3	Body bruised; falling coal.....	40
9	Hy Gitterly.....	22	Mt. Olive.....	.....	1	.....	.....	Body bruised; pit cars.....	32
15	Jas. W. Muir.....	41	Auburn.....	1	.....	3	4	Body bruised; pit cars.....	52
19	Leo Harris.....	24	Divernon.....	.....	1	.....	.....	Foot mashed; pit cars.....	48
24	Patrick Shea.....	20	Springfield.....	.....	1	.....	.....	Head bruised; kicked by mule	42
27	Jas. January.....	28	Pl. Plains.....	.....	1	.....	.....	Leg broken; falling slate.....	65
Oct. 13	John Davis.....	33	Virden.....	.....	1	.....	.....	Leg broken; falling slate.....	55
13	Fred Haase.....	18	Staunton.....	.....	1	.....	.....	Body bruised; pit car.....	35
13	John Dick.....	40	Pawnee.....	1	.....	4	5	Body burned; windy shot.....	49
13	John Pick.....	43	do.....	1	.....	5	6	Body burned; windy shot.....	50
13	Peter Green.....	39	do.....	.....	1	.....	.....	Body burned; windy shot.....	37
13	Dan Reese.....	60	do.....	1	.....	2	3	Body burned; windy shot.....	*
13	Fra'k McCormick	28	Auburn.....	.....	1	.....	.....	Leg broken; mule pit car.....	45
13	Peter Cerverich..	40	Pawnee.....	1	.....	4	5	Body burned; windy shot.....	*
13	Wm. Spaulding..	40	do.....	1	.....	3	4	Body burned; windy shot.....	49
18	Sam Chambers.....	20	Spaulding.....	.....	1	.....	.....	Foot crushed; pit car.....	90
18	Frank Patterson.	23	Chatham.....	.....	1	.....	.....	Leg broken; pit car.....	62
18	Hy Tickert.....	46	Staunton.....	1	.....	7	8	Hand mashed; falling rock....	40
18	Peter Edwards.....	49	Mt. Olive.....	1	.....	.....	1	Body bruised; falling slate....	35
20	B. Boosinger.....	53	Gillespie.....	.....	1	.....	.....	Fingers mashed; wagon chute	30
21	Geo. Reay.....	21	Thayer.....	.....	1	.....	.....	Body bruised; pit car.....	90
24	Walter Sheen.....	26	Springfield.....	.....	1	.....	.....	Leg fractured; pit car.....	32
24	Geo. Holman.....	40	do.....	1	.....	1	2	Body bruised; premature blast	35
24	Ric Martin.....	16	Mt. Olive.....	.....	1	.....	.....	Arm broken; pit car.....	38

Non-Fatal Casualties—Fifth District—July 1, 1903—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and Cause of Injury.	Time lost—days.
1902									
Oct. 27	John Lancaster...	46	Staunton...	1	...	...	1	Arm broken; pit car	35
29	Frank Lisjak.....	40	Viriden.....	1	...	6	7	Eye put out; mine pick	32
Nov. 4	Roy Turner.....	22	do.....	...	1	...	...	Arm broken, face burnt; electric wire	60
6	Thos. Tayler.....	18	do.....	...	1	...	...	Leg broken; pit cars	45
13	Frank Hammond..	20	do.....	...	1	...	...	Leg and hip broken; pit car	50
13	Wm. Sharve.....	40	Auburn.....	1	...	2	3	Body bruised; falling coal	30
15	Geo. Sanders.....	35	do.....	...	1	...	...	Collar bone broken; pit car	30
20	M. McFaddon.....	20	Viriden.....	...	1	...	...	Arm broken; pit car	35
Dec. 3	Sam Tarrant.....	30	Springfield..	1	...	2	3	Body bruised; flying coal	90
4	Jacob Yates.....	28	Divernon.....	1	...	1	2	Arm bruised; pit car	30
7	John Schreler....	51	Mt. Olive....	1	...	...	1	Foot mashed; box car loader	40
18	John Streigler...	23	Viriden.....	...	1	...	...	Toe cut off; pit cars	49
1903									
Jan. 2	Thos. Jones.....	70	Gillespie....	1	...	...	1	Ribs broken; pit cars	60
3	Sam H. Rucker...	43	Auburn.....	1	...	7	8	Hands and face burned; windy shot	*
3	Louis Mina.....	38	Greenridge..	1	...	3	4	Body bruised; flying coal	40
7	C. Sassmanba's'n	66	Mt. Olive....	1	...	...	1	Body bruised; pit car	*
9	Thos. Nuggett...	28	Viriden.....	...	1	...	...	Ankle dislocated; pit cars	32
10	Geo. W. Hall.....	45	Nilwood.....	1	...	...	1	Collar bone broken; falling clod	65
16	Adolph Haux.....	50	Auburn.....	1	...	...	1	Body burned; windy shot	42
16	Leon Rogers.....	40	do.....	1	...	3	4	Body burned; windy shot	35
19	A. S. Roberts.....	38	Hillsboro...	1	...	4	5	Spinal column fractured; falling roof	*
20	Wm. Hill.....	30	Viriden.....	1	...	...	1	Foot mashed; cage	62
Feb. 4	A. Fezganizky...	28	Divernon.....	...	1	...	...	Finger mashed; pit car	132
5	Herman Bentrup..	46	Staunton...	1	...	2	3	Leg broken; falling slate	60
23	Gus Ralun.....	60	do.....	...	1	2	3	Body bruised; falling coal	42
Mar. 7	Fritz Haase.....	18	do.....	...	1	...	...	Collar bone broken; pit car	32
30	J. Berritte.....	15	Mt. Olive....	...	1	...	...	Arm bruised; pit car	32
Apr. 20	J. T. Merriman...	40	Carlinville..	1	...	3	4	Body bruised; pit car	30
May 8	D. G. Jones.....	29	Thayer.....	1	...	4	5	Body burned; fire damp	53
8	Chas. Wenner.....	25	Staunton...	1	...	2	3	Leg broken; falling coal	*
13	August Alsvede...	19	do.....	...	1	...	...	Body bruised; falling slate	35
13	Otto Neidrick...	18	do.....	...	1	...	...	Ankle dislocated; pit car	32
16	Clyde Sprowell...	21	Divernon.....	...	1	...	...	Hip fractured; pit car	*
22	E. Barkus.....	32	do.....	1	...	2	3	Body bruised; pit car	35
29	John Manclute...	23	Hillsboro...	...	1	...	...	Leg broken; pit car	*
June 17	Wm. Morgan.....	28	Springfield..	1	...	2	3	Leg broken; premature blast	*
17	Ed Reese.....	55	do.....	1	...	3	4	Body bruised; premature blast	40
	Totals.....			37	31	86	122		2214

* Not recovered July 1, 1903.

Total men injured.....	68
Not recovered July 1, 1903.....	9
Number recovered July 1, 1903.....	59
Time lost by men recovered.....	2,214 days
Average days lost by men recovered.....	38

Recapitulation of Non-Fatal Accidents—Fifth District—July 1, 1903.

Residence.	No.	Occupation.	No.	Nature of casualty.	No.	Colliery.	No.
Virden.....	10	Miner.....	29	Premature blast.....	4	Chic. & V. Coal Co. No. 1	4
Mt. Olive.....	7	Driver.....	23	Falling slate.....	6	Consol. Coal Co. No. 6...	5
Auburn.....	8	Laborer.....	3	Falling coal.....	6	Consol. Coal Co. No. 8...	2
Girard.....	2	Mach. runner.	1	Falling clod.....	1	Consol. Coal Co. No. 10...	5
Hillsboro.....	4	Trapper.....	2	Falling roof.....	1	Consol. Coal Co. No. 7...	4
Spaulding.....	2	Cager.....	4	Pit cars.....	30	Consolidated Coal Co.....	2
Divernon.....	5	Carpenter.....	1	Steam pipe.....	1	Chic.-V. Coal Co. No. 2...	4
Springfield...	6	Oiler.....	1	Mule.....	1	Girard Coal Co.....	4
Pleasant Pl's	1	Pumpman.....	1	Windy shot.....	9	Hillsboro Coal Co.....	4
Stanneton.....	9	Timberman...	1	Falling rock.....	1	Spaulding Coal Co.....	2
Pawnee.....	6	Mach. helper.	1	Wagon chute.....	1	Madison Coal Co. No. 6...	5
Chatham.....	1	Roadman.....	1	Mine pick.....	1	Spauld'g Coöps. Coal Co	1
Gillespie.....	2			Electric wire.....	1	Trutter Coal Co.....	1
Thayer.....	2			Flying coal.....	2	Victor Coal Co.....	6
Greenridge...	1			Car loader.....	1	Chic.-V. Coal Co. No. 3...	1
Nilwood.....	1			Cage.....	1	Chic., W. & V. Coal Co..	2
Carlinville....	1			Fire damp.....	1	Jones & Adams.....	4
						Spaulding C. & M. C. Co	1
						Virden Coal Co.....	6
						Greenridge M. & C. Co..	1
						Weaver Coal Co.....	1
						Auburn & Alton C'l Co.	2
						Carlinville Coal Co.....	1
Total.....	68		68		68		68

Table Showing the Number and Nature of Non-Fatal Casualties, Conjugal Relations and Time Lost—Fifth District—1903.

Nature of Injuries.	Number.	Married.	Single.	Dependents.	TIME LOST		Per cent of injuries.
					Total days.	Average days.	
Leg broken.....	12	4	8	10	507	56.3	17.65
Leg injured.....	1		1		32	32	1.47
Eyes.....	1	1		7	32	32	1.47
Hand.....	2	2		16	40	20	2.94
Foot.....	5	2	3	2	269	57.4	7.35
Hip injured.....	1		1				1.47
Ankle dislocated.....	2		2		64	32	2.94
Body.....	30	23	7	77	629	23.8	44.11
Fingers.....	2		2		162	81	2.94
Back.....	1	1		5			1.47
Ribs.....	1	1		1	60	30	1.47
Head.....	1		1		42	21	1.47
Arm broken.....	4	1	3	1	168	42	6.88
Arm injured.....	2	1	1	2	62	31	2.94
Collar bone.....	3	1	2	1	127	41.2	4.41
Total.....	68	37	31	122	2,214	32.6	100.00

Brown County—Fifth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	J. J. Lindsey	Ripley	250	250				
2	J. McCleary	do	240	240				
3	John Geisler	Mt. Sterling ..	140	140				
4	J. J. Friday	Ripley	135	135				
5	Sam Bailey	Mt. Sterling ..	132	132				
6	L. Howard	do	125	125				
7	Geo. Adams	do	120	120				
8	Geo. Wagner	do	118	118				
9	P. F. Lewis	do	90	90				
10	E. Powers	do	85	85				
*	Strip coal	do	150	150				
Totals			1,585	1,585				

Mines in 1902, 14.

Abandoned mines, 4.

Mines in 1903, 10.

* Strip mines.

Calhoun County—Fifth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINE.								
1	Thomas Press Brick Co..	Peruque, Mo.	4,928	4,928	.....	.....	.....	.....
	Totals—1 mine.....	.....	4,928	4,928	.....	.....	.....	.....

Mines in 1902, 1.

Mines in 1903, 1.

Brown County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes	Total.	Tons loaded on cars for ship- ment and sup- plied to loco- motives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non- fatal.
\$437	1	.....	1	.....	250	.....	.....	250	\$1 00	.....	.....	1
420	1	.....	1	.....	240	.....	.....	240	1 00	.....	.....	2
245	1	.....	1	.....	140	.....	.....	140	1 00	.....	.....	3
236	1	.....	1	.....	135	.....	.....	135	1 00	.....	.....	4
231	1	.....	1	.....	132	.....	.....	132	1 00	.....	.....	4
218	1	.....	1	.....	125	.....	.....	125	1 00	.....	.....	5
210	1	.....	1	.....	120	.....	.....	120	1 00	.....	.....	6
206	1	.....	1	.....	118	.....	.....	118	1 00	.....	.....	7
157	1	.....	1	.....	90	.....	.....	90	1 00	.....	.....	8
148	1	.....	1	.....	85	.....	.....	85	1 00	.....	.....	9
262	1	.....	1	.....	150	.....	.....	150	1 00	.....	.....	10
\$2,774	11	.....	11	.....	1,585	.....	.....	1,585	\$1 00	.....	.....	*

Calhoun County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Total mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes	Total.	Tons loaded on cars for ship- ment and sup- plied to locomo- tives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non- fatal.
\$4,928	14	6	20	.....	.....	*4,928	292	.....	.....	164	.....	1
\$4,928	14	6	20	.....	.....	4,928	292	.....	.....	.....	.....	.....

* All coal consumed at brick plant.

Greene County—Fifth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	Dill Coal Co	Roodhouse ...	1,920	1,920	.....	.....	.....	.....
2	Ed Griffiths	.. do	1,080	1,080	.....	.....	.....	.....
3	Ed Axley	.. do	960	960	.....	.....	.....	.....
4	Solomon & Sturman	Greenfield	200	200	.....	.....	.....	.....
5	Geo. Parks	.. do	192	192	.....	.....	.....	.....
6	Col. Cummings	Roodhouse	80	80	.....	.....	.....	.....
7	Fred Strang	.. do	65	65	.....	.....	.....	.....
Totals—7 mines.....			4,497	4,497	.....	.....	.....	.....

Mines in 1902, 7.

New mines, 2.

Abandoned mines, 2.

Mines in 1903, 7.

Jersey County—Fifth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	L. A. Miller.....	Brighton	922	922				
2	Cairus & Budd	.. do	720	720				
3	L. Wagenglass	.. do	392	392				
4	E. Springman	.. do	336	336				
5	E. Harnish.....	.. do	252	252				
6	M. Burns.....	.. do	168	168				
Totals—6 mines.....			2,790	2,790				

Mines in 1902, 8.

Abandoned mines, 2.

Mines in 1903, 6.

Greene County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI-DENTS.		
	Average number of miners.	All other employes	Total.	Tons loaded on cars for ship-ment and sup-plied to locomo-tives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	Number.
\$2,880	8	1	9	.....	1,920	.....	240	1,920	\$0 75	.....	.....	.....	1
1,620	4	1	5	.....	1,080	.....	200	1,080	87 ¹ / ₂	.....	.....	.....	12
1,440	3	1	4	.....	960	.....	216	960	87 ¹ / ₂	.....	.....	.....	33
400	3	1	4	.....	200	.....	60	200	75	.....	.....	.....	4
384	1	1	2	.....	192	.....	120	192	75	.....	.....	.....	5
120	1	.....	1	.....	80	.....	65	80	87 ¹ / ₂	.....	.....	.....	6
97	1	.....	1	.....	65	.....	50	65	87 ¹ / ₂	.....	.....	.....	7
\$6,942	21	5	26	.....	4,497	.....	136	4,497	\$0 81	.....	.....	.....	.....

Jersey County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI-DENTS.		
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	Number.
\$1,383	2	1	3	.....	922	.....	220	922	\$1 00	.....	.....	1	
1,080	2	1	3	.....	720	.....	210	720	1 00	.....	.....	2	
588	2	.....	2	.....	392	.....	140	392	1 00	.....	.....	3	
504	2	.....	2	.....	336	.....	120	336	1 00	.....	.....	4	
378	2	1	3	.....	252	.....	90	252	1 00	.....	.....	5	
252	2	.....	2	.....	168	.....	60	168	1 00	.....	.....	6	
\$4,185	12	3	15	.....	2,790	.....	140	2,790	\$1 00	.....	.....	.....	

Macoupin County—Fifth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Chicago-Virden Co'l Co..	Virden	364,543	13,576	215,252	2,847	42,816	90,052
2	Consolidated Coal Co..	Staunton	256,406	122,205	92,255	.....	.....	48,946
3	Madison Coal Co..	Mt. Olive	245,992	35,285	161,293	885	3,191	45,338
4	Consolidated Coal Co..	do	229,654	102,979	90,496	.....	5,202	30,977
5	Consolidated Coal Co..	Staunton	210,760	50,026	127,051	767	2,901	30,015
6	Consolidated Coal Co..	Mt. Olive	195,875	50,558	112,450	.....	8,187	24,680
7	Greenridge Mining Co..	Girard	178,927	139,276	23,235	640	.....	15,776
8	Virden Coal Co..	Virden	165,841	50,752	66,336	.....	16,584	32,169
9	Carlinsville Coal Co..	Carlinsville	122,576	90,436	20,160	.....	2,260	9,720
10	Consolidated Coal Co..	Gillespie	77,859	23,477	36,525	.....	185	17,672
11	Girard Coal Co..	Girard	67,608	41,394	17,351	1,854	2,522	4,487
12	Consolidated Coal Co..	Hornsby	51,862	6,587	33,448	.....	1,038	10,789
13	Weaver Coal & Coke Co.	Nilwood	42,420	8,910	26,402	.....	.....	7,108
Totals			2,210,323	735,461	1,022,254	6,993	84,886	360,729
LOCAL MINES.								
1	Wm. Nell & Co.....	Bunker Hill ..	6,926	.....	5,407	.....	837	682
2	Davis Bros.....	Chesterfield ..	1,800	1,800	.....	.....	.....	.....
3	W. A. Bodl.....	do	1,050	1,050	.....	.....	.....	.....
4	G. B. Loper.....	do	954	954	.....	.....	.....	.....
5	Lueking Bros.....	Fosterburg ..	842	842	.....	.....	.....	.....
6	Dugger & Tally	Scottsville ..	480	480	.....	.....	.....	.....
7	Geo. Harbaugh	Chesterfield ..	420	420	.....	.....	.....	.....
8	T. R. Rands	do	140	140	.....	.....	.....	.....
9	Jarden & Lansford.....	Bunker Hill ..	120	120	.....	.....	.....	.....
Totals.....			12,732	5,806	5,407	.....	837	682
Totals—22 mines..			2,223,055	741,267	1,027,661	6,993	85,723	361,411

Mines in 1902, 19.

New mines, 3.

Mines in 1903, 22.

Macoupin County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUT-PUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI-DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mines.					Number of fatal.	Number of non-fatal.	
\$443,672	287	153	440	350,422	6,220	7,901	248	6,050	49 & 55c	4,102	.....	4	1
230,054	177	102	279	237,039	6,885	12,481	245	.....	.....	1,337	1	5	2
223,095	119	106	225	235,497	855	9,640	246	.....	.....	882	.....	.....	3
207,978	148	88	236	219,911	453	9,290	226	.....	.....	867	.....	2	4
197,673	148	81	229	198,408	646	11,706	220	.....	.....	1,106	2	4	5
181,612	136	76	212	176,353	7,638	11,884	210	.....	.....	811	.....	5	6
160,594	166	62	228	174,497	2,035	2,413	193	178,927	49 & 55c	6,543	1	1	7
142,444	135	57	192	146,908	10,933	8,000	215	165,841	49 & 55c	5,528	.....	1	8
135,359	110	39	149	104,796	12,870	4,910	245	122,576	49 & 55c	4,916	.....	1	9
79,316	95	43	138	68,151	3,233	6,475	130	.....	.....	442	.....	2	10
85,905	90	44	134	58,970	7,609	1,029	176	67,608	49 & 55c	2,544	.....	2	11
55,619	40	35	75	43,711	1,122	7,029	170	.....	.....	258	.....	.....	12
41,084	80	30	110	34,710	5,220	2,490	204	42,420	49 & 55c	1,103	.....	1	13
<u>\$2,184,415</u>	<u>1,731</u>	<u>916</u>	<u>2,647</u>	<u>2,049,355</u>	<u>65,720</u>	<u>95,248</u>	<u>210</u>	<u>583,422</u>	<u>\$0.505</u>	<u>30,439</u>	<u>4</u>	<u>33</u>	
\$10,849	9	6	15	.....	6,926	.....	252	.....	.....	65	.....	.....	1
2,700	7	1	8	.....	1,800	.....	147	1,800	\$0.75	.....	.....	.....	2
1,575	4	1	5	.....	1,050	.....	160	1,050	75	.....	.....	.....	3
1,431	3	1	4	.....	954	.....	120	954	75	.....	.....	.....	4
1,263	3	1	4	.....	842	.....	180	842	75	.....	.....	.....	5
720	2	1	3	.....	480	.....	140	480	75	.....	.....	.....	6
630	2	1	3	.....	420	.....	125	420	75	.....	.....	.....	7
210	2	1	3	.....	140	.....	40	140	75	.....	.....	.....	8
180	2	1	3	.....	120	.....	30	120	75	.....	.....	.....	9
<u>\$19,558</u>	<u>34</u>	<u>14</u>	<u>48</u>	.....	<u>12,732</u>	.....	<u>133</u>	<u>5,805</u>	<u>\$0.75</u>	<u>65</u>	.....	.....	
<u>\$2,203,973</u>	<u>1,765</u>	<u>530</u>	<u>2,695</u>	<u>2,049,355</u>	<u>78,452</u>	<u>95,248</u>	.....	<u>589,228</u>	.....	<u>30,504</u>	<u>4</u>	<u>34</u>	

Montgomery County—Fifth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Hillsboro Coal Co	Hillsboro	158,980	13,495	98,769	.....	11,766	34,950
2	Montgomery Coal Co.	Paisley	89,515	9,015	63,100	.....	4,200	13,200
3	Litchfield Mining & P. Co	Litchfield	88,613	10,409	45,668	7,368	.....	25,168
4	Clover Leaf Coal & M. Co	Coffeen	76,859	5,077	58,216	.....	2,635	10,931
5	Raymond Coal Co	Raymond	6,345	.....	5,200	.....	.....	1,145
Totals—5 mines.....			420,312	37,996	270,953	7,368	18,601	85,394

Mines in 1902, 5.

Mines in 1903, 5.

Morgan County—Fifth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	F. Wagstaffe.....	Murryville ...	3,120	3,120	.....	.....	.....	.....
2	Jacob Stocker	Arenzville....	720	720	.....	.....	.....	.....
Totals—2 mines			3,840	3,840	.....	.....	.....	.....

Mines in 1902, 2.

Mines in 1903, 2.

Montgomery County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI-DENTS.	
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$170,745	119	52	171	146,285	7,411	5,284	222	19,077	*	1,289	4	1
86,163	167	67	234	82,995	4,320	2,200	145	89,515	*	655	1	2
91,311	90	21	111	67,411	16,722	4,480	245	88,613	*	2,713	3	3
73,161	68	31	99	72,595	1,864	2,400	239	76,859	*	2,383	4	4
8,875	12	5	17	1,273	4,472	600	250	6,345	\$0 74	32	4	5
\$430,255	466	176	632	370,559	34,789	14,964	220	280,409	\$0 51	8,072	1	4

* 49 and 55 cents.

Morgan County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI-DENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$4,680	9	1	10	.....	3,120	.....	275	3,120	\$0 87 ¹ / ₂	130	.....	1
1,620	3	.....	3	.....	720	.....	240	720	1 50	36	.....	2
\$6,300	12	1	13	.....	3,840	.....	257	3,840	\$0 99	166	.....	.....

Sangamon County—Fifth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Chicago, Wilm. & V. Co.	Thayer	403,758	2,377	172,073	68,524	.....	160,784
2	Madison Coal Co., 6	Divernon	306,842	12,507	193,389	4,807	3,079	93,060
3	Jones & Adams Coal Co.	Springfield ..	290,905	85,165	145,461	.....	9,565	50,714
4	Chicago-Virden C. Co., 2	Auburn	269,889	54,100	123,346	3,833	3,848	84,762
5	Springfield C. & M. Co., 2	Riverton	258,650	36,886	146,694	.....	4,444	70,626
6	Victor Coal Co.	Pawnee	228,190	52,000	89,370	.....	18,411	68,409
7	Capitol Co-op. Coal Co.	Springfield ..	181,991	21,750	85,106	10,851	27,702	36,582
8	Springfield C. & M. Co., 4	.. do	164,032	90,624	48,318	.....	2,536	22,554
9	Springfield C. & M. Co., 5	.. do	152,430	84,644	51,388	.....	430	15,968
10	Springfield C. & M. Co., 3	.. do	146,350	64,480	56,128	.....	272	25,470
11	Springfield Co-op. C. Co.	.. do	146,108	48,210	60,120	.....	11,670	26,108
12	Spaulding Coal Co., 1	Spaulding	141,009	22,636	114,416	.....	.....	3,957
13	West End Coal Co.	Springfield ..	139,400	75,800	50,340	.....	3,740	9,520
14	Springfield C. & M. Co., 1	Riverton	129,252	55,382	49,216	.....	1,154	23,400
15	Cantrall Co-op. Coal Co.	Cantrall	122,637	24,447	73,343	.....	4,443	20,404
16	Sangamon Coal Co.	Springfield ..	121,313	67,010	37,457	.....	2,729	14,117
17	Woodside Coal Co.	.. do	118,009	76,800	25,861	.....	2,248	13,100
18	Republic Iron & Steel Co.	.. do	117,932	53,587	41,969	.....	4,792	17,584
19	Wabash Coal Co., 1	Dawson	110,312	26,656	41,566	.....	18,097	23,993
20	Williamsville Coal Co.	Selbytown	109,627	70,627	9,000	.....	7,000	23,000
21	Spaulding Coal Co., 2	Bissell	107,431	19,456	85,247	.....	.....	2,728
22	Auburn & Alton Coal Co.	Auburn	107,126	83,374	14,774	.....	.....	8,978
23	Chicago-Virden C. Co., 3	Chatham	95,622	25,890	43,742	.....	.....	25,990
24	Barclay Coal & M. Co.	Barclay	95,451	16,688	61,071	.....	3,019	14,673
25	Citizens' Coal M. Co., A	Springfield ..	94,924	39,788	33,998	2,569	2,565	16,064
26	Citizens' Coal M. Co., B	.. do	94,284	26,572	43,361	1,807	3,687	18,857
27	Jefferson Coal M. Co.	.. do	89,390	32,320	36,810	.....	.....	20,260
28	Trutter Coal Co	Pl. Plains	16,695	4,939	6,959	.....	.....	4,600
Totals			4,359,562	1,274,715	1,940,463	92,391	135,431	916,562
LOCAL MINES.								
1	Lincoln Park Coal M. Co.	Springfield ..	25,696	6,314	12,350	.....	.....	7,032
2	J. P. Gorden	Salisbury	1,268	1,268	.....	.....	.....	.....
Totals			26,964	7,582	12,350	.....	.....	7,032
Totals—30 mines ..			4,386,526	1,282,297	1,952,813	92,391	135,431	692,942

Mines in 1902, 30.

Mines in 1903, 30.

Sangamon County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for ship- ment and sup- plied to loco- motives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$351,089	220	125	345	392,018	5,186	10,154	252	.....	.....	3,970	1	2	1
253,756	133	113	246	293,977	3,415	9,450	244	.....	.....	2,755	2	5	2
254,641	188	97	285	277,735	5,865	7,305	258	290,905	*	10,668	1	4	3
278,441	231	87	318	264,691	2,600	2,598	192	269,889	†	9,498	1	6	4
215,528	196	103	299	249,339	.....	9,311	235	258,650	*	10,128	2	.....	5
224,668	156	48	204	222,690	2,300	3,000	220	228,190	*	9,496	4	6	6
189,624	125	54	179	101,776	64,920	15,295	250	181,991	*	6,872	.....	.....	7
140,297	125	62	187	154,948	6,397	2,687	220	164,032	*	5,760	2	1	8
134,283	115	71	186	147,182	2,850	2,398	210	152,430	*	6,360	.....	.....	9
124,877	129	57	186	137,423	188	8,737	205	146,350	*	5,604	.....	.....	10
147,620	120	34	154	117,102	26,232	2,774	240	146,108	*	5,823	.....	.....	11
165,173	120	40	160	140,069	450	500	238	141,009	*	4,871	.....	2	12
143,652	115	40	155	116,453	19,297	3,650	210	139,400	*	5,599	.....	.....	13
109,845	122	58	180	119,558	4,165	5,526	215	129,252	*	5,616	.....	.....	14
124,652	90	50	140	118,815	1,500	2,322	251	122,637	*	5,620	1	.....	15
106,262	134	47	181	115,167	3,746	2,400	173	121,313	*	5,041	.....	.....	16
118,989	94	47	141	106,609	7,800	3,600	269	118,009	*	4,650	.....	.....	17
118,434	102	40	142	61,087	51,502	5,343	245	117,932	*	4,716	.....	.....	18
93,409	90	41	131	102,718	3,697	3,897	197	110,312	*	6,073	1	.....	19
87,896	75	30	105	76,627	11,000	22,000	300	109,627	*	4,385	.....	.....	20
125,298	125	28	153	106,431	500	500	240	107,431	†	4,469	.....	.....	21
96,300	76	35	111	97,098	8,500	1,630	234	107,126	*	2,960	3	2	22
96,197	107	47	154	90,230	2,273	3,119	168	95,622	†	4,189	1	1	23
101,196	95	35	130	69,976	20,142	5,333	265	95,451	*	3,385	1	.....	24
110,635	101	28	129	90,903	2,862	1,159	211	94,924	*	4,004	.....	.....	25
113,354	95	26	121	91,959	1,062	1,263	198	94,284	*	3,635	.....	.....	26
90,103	70	28	98	85,500	2,870	1,020	280	89,390	*	3,350	.....	.....	27
16,338	25	15	40	13,000	2,978	720	240	16,698	*	836	1	1	28
<u>\$4,132,735</u>	<u>3,374</u>	<u>1,456</u>	<u>4,860</u>	<u>3,961,069</u>	<u>260,900</u>	<u>137,593</u>	<u>232</u>	<u>3,648,962</u>	<u>.....</u>	<u>150333</u>	<u>21</u>	<u>31</u>	
\$36,784	28	18	46	.....	25,054	642	205	25,696	.....	1,029	.....	.....	1
1,902	2	1	3	.....	1,268	.....	180	1,268	†	72	.....	.....	2
<u>\$38,686</u>	<u>30</u>	<u>19</u>	<u>49</u>	<u>.....</u>	<u>26,322</u>	<u>642</u>	<u>.....</u>	<u>26,964</u>	<u>.....</u>	<u>1,101</u>	<u>.....</u>	<u>.....</u>	
<u>\$4,171,421</u>	<u>3,404</u>	<u>1,505</u>	<u>4,909</u>	<u>3,961,069</u>	<u>287,222</u>	<u>138,235</u>	<u>193</u>	<u>3,675,926</u>	<u>\$9 512</u>	<u>151434</u>	<u>21</u>	<u>31</u>	

* From July 1, 1902, to April 1, 1903, mining price, 49.7 cents. From April 1, 1903, to July 1, 1903, mining price, 55.7 cents.

† From July 1, 1902, to April 1, 1903, mining price, 49 cents. From April 1, 1903, to July 1, 1903, mining price, 55 cents.

† 1,168 tons mined at \$2.00 per day.

Scott County—Fifth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	Wm. H. Bates & Co.....	Winchester...	15,678	15,678	.....	.....	.....	.....
2	John McGuire.....	Alsey.....	1,135	1,135	.....	.....	.....	.....
3	Chas. McAlwee.....	Winchester...	1,106	1,106	.....	.....	.....	.....
4	Wm. G. Parker.....	.. do	957	957	.....	.....	.....	.....
5	P. McGuire.....	Alsey.....	927	927	.....	.....	.....	.....
6	Fred Meyers.....	Neelyville....	800	800	.....	.....	.....	.....
7	Six & Peake.....	Exeter.....	560	560	.....	.....	.....	.....
8	Jackson Jones.....	Winchester...	480	480	.....	.....	.....	.....
9	Fred Brockhouse.....	Chapin.....	420	420	.....	.....	.....	.....
10	Ed Ramft.....	Exeter.....	354	354	.....	.....	.....	.....
11	Chas. Priest & Co.....	Bluffs.....	245	245	.....	.....	.....	.....
12	Ed Berry.....	Exeter.....	140	140	.....	.....	.....	.....
13	E. Yarding.....	.. do	130	130	.....	.....	.....	.....
14	B. Brown.....	.. do	120	120	.....	.....	.....	.....
15	Wm. Benson.....	Winchester...	110	110	.....	.....	.....	.....
16	Wm. Kunds.....	Exeter.....	108	108	.....	.....	.....	.....
17	J. Reyborn.....	Winchester...	80	80	.....	.....	.....	.....
18	Wm. Mindendorf.....	Chapin.....	20	20	.....	.....	.....	.....
Totals			23,370	23,370	.....	.....	.....	.....

Scott County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$25,085	30	11	41	15,678	.....	.....	300	15,678	\$1 00	699	.....	.....	1
1,816	3	.....	3	.....	1,135	.....	225	1,135	1 00	45	.....	.....	2
1,770	3	.....	3	.....	1,106	.....	215	1,106	1 00	42	.....	.....	3
1,531	2	.....	2	.....	957	.....	200	957	1 00	37	.....	.....	4
1,483	3	.....	3	.....	927	.....	210	927	1 00	35	.....	.....	5
1,280	2	.....	2	.....	800	.....	200	800	1 00	34	.....	.....	6
696	2	.....	2	.....	560	.....	125	560	1 00	22	.....	.....	7
768	2	.....	2	.....	490	.....	140	490	1 00	20	.....	.....	8
672	2	.....	2	.....	420	.....	142	420	1 00	20	.....	.....	9
566	1	.....	1	.....	354	.....	160	354	1 00	16	.....	.....	10
392	2	.....	2	.....	245	.....	100	245	1 00	10	.....	.....	11
224	1	.....	1	.....	140	.....	86	140	1 00	6	.....	.....	12
208	1	.....	1	.....	130	.....	75	130	1 00	5	.....	.....	13
192	1	.....	1	.....	120	.....	70	120	1 00	5	.....	.....	14
176	2	1	3	.....	110	.....	60	110	1 00	4	.....	.....	15
173	1	.....	1	.....	108	.....	50	108	1 00	4	.....	.....	16
128	1	.....	1	.....	80	.....	55	80	1 00	3	.....	.....	17
32	1	.....	1	.....	20	.....	15	20	1 00	1	.....	.....	18
\$37,392	60	12	72	15,678	7,692	.....	146	23,370	\$1 00	1,008	.....	.....	

Mines in 1902, 13.

New Mines, 5.

Mines in 1903, 18.

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Macoupin	13	2,210,323	735,461	1,022,254	6,993	84,886	228,642	132,087	\$2,184,415
Montgomery..	5	420,312	37,996	270,953	7,368	18,601	63,222	22,172	430,255
Sangamon....	28	4,359,562	1,274,715	1,940,463	92,391	135,431	687,924	228,638	4,132,735
Totals and averages	46	6,990,197	2,048,172	3,233,670	106,752	238,918	979,788	382,897	\$6,747,405

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Brown	10	1,585	1,585	.....	.....	.....	.....	.....	\$2,774
Calhoun	1	4,928	4,928	.....	.....	.....	.....	.....	4,928
Greene.....	7	4,497	4,497	.....	.....	.....	.....	.....	6,942
Jersey	6	2,790	2,790	.....	.....	.....	.....	.....	4,185
Macoupin	9	12,732	5,806	5,407	.....	837	682	.....	19,558
Morgan	2	3,840	3,840	.....	.....	.....	.....	.....	6,300
Sangamon....	2	26,964	7,582	12,350	.....	.....	5,018	2,014	38,686
Scott.....	18	23,370	23,370	.....	.....	.....	.....	.....	37,392
Totals and averages	55	80,706	54,398	17,757	.....	837	5,700	2,014	\$120,765
Totals district—all mines..	101	7,070,903	2,102,570	3,251,427	106,752	239,755	935,488	384,911	\$6,868,170

Fifth District—1903—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties.	Number non-fatal cas't's
Number of miner-	All other employé's.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
1,731	916	2,647	1,965,710	83,645	65,720	95,248	210	583,422	1,626,901	\$0.505	\$0.435	30,439	4	33
456	176	632	367,239	3,320	34,789	14,964	220	280,409	139,903	.51	.43	8,072	1	4
3,374	1,486	4,860	3,864,885	96,184	260,900	137,593	232	3,643,962	710,600	.508	.435	150,333	21	31
5,561	2,578	8,139	6,197,834	183,149	361,409	247,805	224	4,512,793	2,477,404	\$0.508	\$0.435	188,844	26	68

Fifth District—1903—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties.	Number non-fatal cas't's
Number of miners.	All other employé's.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
11	....	11	.....	.....	1,585	.....	144	1,585	.....	\$1.00	.....	.....	..	..
14	6	20	.....	.....	*4,928	.....	292	4,928	.....	\$0.37	.....	164	..	..
21	5	26	.....	.....	4,497	.....	194	4,497	.....	.81	.....	.....	..	..
12	3	15	.....	.....	2,790	.....	172	2,790	.....	1.00	.....	.....	..	..
34	14	48	.....	.....	12,732	.....	161	5,806	6,926	.75	.60	65	..	..
12	1	13	.....	.....	3,840	.....	257	3,840	.....	.99	.....	166	..	..
30	19	49	.....	.....	26,322	642	193	26,964	.....	.512	.....	1,101	..	..
60	12	72	.....	15,678	7,692	.....	183	23,370	.....	1.00	.....	1,008	..	..
194	60	254	.....	15,678	59,459	5,570	187	68,852	11,854	\$0.715	\$0.45	2,504	.....	.....
5,765	2,638	8,393	6,197,834	198,827	420,867	253,375	.....	4,581,645	2,489,258	.....	.....	191,348	26	68

* All coal consumed at brick plant.

SIXTH INSPECTION DISTRICT--1903.

EIGHTH ANNUAL REPORT.

Counties—Bond, Clinton, Madison, Marion, St. Clair.

JOHN DUNLOP, *Inspector, Centralia.*

HON. DAVID ROSS, *Secretary,*

State Bureau of Labor Statistics, Springfield, Illinois.

SIR—In compliance with an act of the General Assembly of this State, defining the duties of the State inspectors of coal mines, and providing for the better preservation of the health and safety of persons employed in the mines of the State, I have the honor to herewith submit to you the eighth annual report of the sixth inspection district, for the year ended June 30, 1903.

The coal producing counties of the district are Bond, Clinton, Madison, Marion and St. Clair.

This report gives tabulated statements by counties, of the number of mines operated, the names of companies operating the same, and the postoffice address of the mines; the depth of coal below the surface, and its thickness; the geological number of the seam; a description of the plants of the different mines, showing their methods and systems of producing coal; the total output of all grades of coal and the disposition of the same; the aggregate value of the output at the mines; the number of miners and other employes; the tonnage mined by hand, also by cutting machines; the number of mines using machines and the number of machines in use; the number of kegs of powder used in blasting coal; the number of steam boilers used at the mines; the number of fatal and non-fatal accidents, and the number of widows and children left dependent.

The following is a summary taken from the statistical tables, for the fiscal year, 1903:

Number of counties in which coal is produced.....	5
Number of mines.....	113
Number of new mines.....	11
Number of abandoned mines.....	9
Number of shipping mines.....	83
Number of local mines.....	30
Total tonnage.....	7,734,831
Tons of mine run.....	2,306,492
Tons of lump coal.....	3,867,289
Tons of other grades.....	1,561,050
Tons shipped.....	6,800,290

Tons supplied to locomotives	308,984
Tons sold to local trade.....	265,172
Tons consumed and wasted at mines.....	360,355
Aggregate value of total product	\$6,602,775
Number of miners.....	5,770
Number of other employés.....	2,584
Total number of employés.....	8,354
Average number of days of active operation, shipping mines.....	225
Number of kegs of powder used for blasting coal.....	140,383
Total number of mines using machines.....	38
Number of machines in use.....	298
Number of machines operated by electricity.....	38
Number of machines operated by compressed air.....	260
Total tons cut by machine.....	3,854,573
Total tons mined by hand.....	3,880,258
Number of motors in use.....	8
Number of mines using electric motors.....	5
Number of mines using rope haulage.....	2
Fatal accidents.....	32
Non-fatal accidents losing 30 days time.....	63
Number of wives made widows.....	19
Number of children made fatherless.....	57
Number of tons produced for each fatal accident.....	241,713
Number of tons produced for each non-fatal accident.....	122,775
Number of persons employed to each fatal accident.....	261
Number of persons employed to each non-fatal accident.....	133

The following shows the coal production by counties, with the increase and decrease in each, for the years ending June 20, 1902 and 1903:

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL IN TONS.		Increase.	Decrease.
	1902	1903		
St. Clair.....	2,578,553	3,134,679	556,126	.....
Madison.....	1,956,271	2,551,587	595,316	.....
Marion.....	881,821	1,002,047	120,226	.....
Clinton.....	724,462	870,518	146,056	.....
Bond.....	100,740	176,000	75,260	.....
Total.....	6,241,847	7,734,831	1,492,984	.....

The district shows a net increase of 1,492,984 tons, all the counties showing an increase; Madison and St. Clair counties especially, show over half a million tons each.

Complete returns were not obtained from the Sorento Coal company on account of a change in the management, the old company retaining all the books and records.

In the summary it will be found that there has been a large increase in the amount of machine mined coal, which is almost one-half of the output, while for 1902 the machine mined coal was only 35 per cent of the total product. The number of mines using machines has increased from 33 for 1902 to 38 in 1903, and the number of machines has increased from 243 to 296, an increase of 53 machines.

The number of machines operated by compressed air was 258 and by electricity 38. In this connection, a decided advantage is gained, where the power is electricity in operating mining machines, also in having electricity applied to mechanical haulage in the use of electrical motors. The number of mines using electric motors at the end of the present year was five, and the number of motors in use eight. Other companies are making preparations to place motors in their mines.

Although the district shows an increase in production over last year of 24 per cent, it will be noticed that the fatal accidents have increased in a much greater ratio, the increase being 68 per cent. One of the reasons for this increase is due to an explosion in the mine at Sandoval, March 31, where eight men lost their lives; deducting this number it will be found that the proportion of fatal accidents to the production of coal would be small, and the ratio per 1,000 persons employed would only be four-tenths of an increase over last year. I regret to say that the cause of a large number of lives that have been sacrificed in the mines in the past year can be traced to carelessness on the part of the persons themselves and a lack of discipline. The rules and regulations in operating mines are openly violated, as a close perusal into the cause of the accidents will show.

CONDITION OF THE MINES.

In making examinations of the mines during the year, one of the greatest difficulties met with is to get those in charge of the mines to have cross-cuts put through at the proper distances, as required by law, and in having them closed again so that the ventilation can be kept close to the working places. There are very few exceptions where I have examined a mine, that this requirement is not included in my recommendations.

During the last year a great deal of my time has been taken up in examining scales; my greatest trouble has been where the scales are not accurate, sometimes one of the corners of the table will weigh from five to ten pounds heavy or light, and the demand will be made to have it weigh correctly; at the same time an agreement has been made, that no less than 50 pounds shall be placed to the credit of the persons sending out the coal. In other words, where scales show over 25 pounds and less than 75 pounds the miner is given 50 pounds.

IMPROVEMENTS.

The Staunton Coal Co., Madison county, has put in a 22-foot fan at its No. 1 mine, which has more than doubled the quantity of air. The company has also placed two new boilers, 6x18 feet, having 70 three inch flues; preparations are also being made to put in electric haulage.

The Donk Bros. Coal & Coke Co. are making preparations to install electric haulage.

The Johnson Coal Co., Marissa, St. Clair county, has put in electric haulage.

The Breese Coal Co. at Breese, Clinton county, has put in two electric motors and are placing a 20-foot fan to increase the ventilation.

The Sandoval Coal Co., Sandoval, Marion county, has put in tail-rope haulage at their No. 1 mine. The company has commenced operations putting up a steel tippie at its No. 2 mine, and a 20-foot fan has also been put in this mine.

The Oak Hill Coal Co., Belleville, St. Clair county, has rebuilt the top works at its mine.

The Dutch Hollow Coal Co., Freeburg, St. Clair county, has leased the mine of the Advance Coal Co. at Marissa, and bought the Oakland Coal Co.'s mine, Belleville. The mines are still known and operated under the old name.

NEW MINES.

The Staunton Coal Co. is sinking its No. 2 mine which is located two miles east of the No. 1 shaft.

The Lumaghi Coal Co., Collinsville, has sunk a new mine at that place. It is known as No. 3. The company contemplate putting up a steel tippie at this mine.

The DeCamp Fuel Co. of St. Louis, Missouri, is sinking a new shaft two miles south of Staunton in Madison county, located on the Wabash railway.

The old mine known as McDonald, located one mile north of Worden, Madison county, which was formerly leased by the Consolidated Coal Co. and abandoned five years ago, has been reopened by the Inter-State Coal Co., Worden. All the top works have been rebuilt; the old top works were burned down a few years ago. The company has installed mining machines operated by compressed air. J. E. Rutledge, president of the Trenton Coal Co., Trenton, Clinton county, is also president of this new company.

Joseph Taylor is sinking a new shaft one mile south of his Mentor mine, O'Fallon, St. Clair county, located on the East St. Louis & O'Fallon Electric railway.

The Kolb Coal Co., Mascoutah, St. Clair county, is sinking a new shaft one mile west of Lenzburg, located on the Illinois Central railroad; this makes three mines for the company in this district.

John Maule, Belleville, St. Clair county, has commenced sinking a new shaft near Shiloh, four miles east of Belleville, located on the Southern railway.

Mr. Meeker of Marissa, has commenced sinking a shaft two miles south of White Oak, St. Clair county, located on the Illinois Central railroad.

A new company known as the Buxton Coal Co. have commenced sinking a shaft at Buxton, Clinton county. If conditions prove to be favorable, the shaft now being put down will be used as the escapement shaft.

The Beatty Coal Co., Mascoutah, St. Clair county, has sunk a shaft on the Louisville & Nashville railroad, two miles west of Mascoutah; the depth is 90 feet, thickness of coal $6\frac{1}{2}$ feet. It is intended as a machine mine. The company has installed new air compressors and have also put in three mining machines, one each—Harrison, Sullivan and Ingersoll.

BLAST EXPLOSION.

This explosion occurred in the mine of the Sandoval Coal Co., at Sandoval, Marion county, March 31, 1903, killing eight men. The explosion originated in the 5th west entry; the hole had been drilled, charged and fired by the night shift. When the shot was fired the tamping was blown out without bringing down any coal. John Gichino, one of the victims of this explosion, was on the day shift and was told by his partner about the shot; Gichino then drilled the hole deeper, making it six feet and seven inches in depth. The hole was charged almost full of powder, as a cartridge 12 inches in length was found in the cross-cut. It was estimated that nearly 12 pounds of powder was used in this shot, and it was charged in the solid coal. When the shot was fired it blew out the tamping and caused the explosion. The force of this shot did not make a crack in the coal. When it is considered that the potential energy of one pound of powder is equal to 480-foot tons, it can readily be understood the force and destruction that would follow the exploding of ten or 12 pounds of powder when fired out of a hole facing a roadway. All the men killed and injured by this shot were on the entry, in direct line of the force from the shot, which accounts for the large number killed; most of the men killed were on their way to the bottom of the shaft. Three of the men killed were sitting at the entrance of the entry where the explosion occurred, the stoppings on each side of the trap door were blown on to them, killing one instantly, one lived two hours, the other eight days; five were brought out dead. Three drivers were severely injured by this explosion, losing three months' time. Suits were entered against the company for damages, aggregating \$69,000, but agreements having been made all suits were withdrawn.

FATAL ACCIDENTS.

July 25, 1902, J. L. Baker, miner, aged 38 years, married, employed in the No. 3 mine of Pittenger & Davis Mining & Mfg. Co., Centralia, was killed by a fall of slate at the face of his room. He leaves a widow and four children.

July 26, 1902, Ed. J. Long, miner, aged 35 years, married, employed in the Abbey Mine No. 3 of the Consolidated Coal Co., Collinsville, was killed by a fall of slate. He leaves a widow and two children.

Aug. 22, 1902, William Painer, driver, aged 22 years, married, employed in the Rentchler mine of the Missouri & Illinois Coal Co., was jammed between his trip and a car that had become uncoupled from a trip going out to the bottom of the shaft ahead of him. He leaves a widow and one child.

Aug. 27, 1902, William Heinckel, machine helper, aged 25 years, single, employed in mine No. 2 of the Muren Coal & Ice Co., New Baden, Clinton county, while assisting the machine runner to undercut the coal in a room that had been partially shot, some loose coal gave way, falling on him, breaking his back. He died 63 days after the accident.

Sept. 17, 1902, Matthew Weimer, miner, aged 59 years, married, employed in the "Nigger Hollow" mine, operated by the St. Louis & O'Fallon Coal Co., Belleville, was killed by a fall of slate. He leaves a widow and six children dependent.

Oct. 2, 1902, Reece Evans, assistant miner, aged 15 years, employed in mine No. 3 of the Donk Bros. Coal & Coke Co., Troy, Madison county, fell from the ascending cage, falling to the bottom of the shaft; there were men on the cage at the same time, but did not notice him fall, and never missed him until getting off at the top landing.

Oct. 10, 1902, Fred Wieserman, miner, aged 37 years, single, employed at Donk Bros. Coal Co.'s No. 1 mine, Donkville, Madison county, was killed by a fall of slate at the face of his room.

Nov. 5, 1902, Joseph Leshner, miner, aged 18 years, single, employed in the "Nigger Hollow" mine of the St. Louis & O'Fallon Coal Co., Belleville, while drilling a shot that had misfired, his drill coming in contact with sulphur in the coal, the powder was ignited, causing the shot to explode burning and injuring him by flying coal, causing his death.

Nov. 8, 1902, Charles Becker, a miner, aged 45 years, married, employed in the Green Mount mine, Belleville, operated by the Consolidated Coal Co., was killed by a fall of slate. He leaves a widow and six children.

Jan. 10, 1903, G. B. Harris, miner, aged 42 years, married, employed by the Odin Coal Co., Odin, Marion county, was killed by a fall of coal. He tried to wedge the coal down, but had stopped working and commenced loading his car, when the coal gave way, and caught him. He leaves a widow and five children.

Jan. 13, 1903, Joseph Smith, miner, aged 21 years, single, employed in the mine of the Consolidated Coal Co., Breese, Clinton county, was killed by a fall of sulphur rock, a short distance from the face of his room. He was a son of Mine Manager Felix Smith of that place.

Jan. 14, 1903, Ed. Bayles, cager, aged 45 years, employed in the Staunton Coal Co.'s No. 1 mine, Staunton, Macoupin county, while putting a car of coal on the cage, it went off of the rails; he went on to the cage to replace the car, and while doing so the engineer hoisted the cage. Deceased was caught between the cage and side of the shaft, and dragged for a distance of 80 feet. When the cage was signaled to stop the body fell to the bottom of the shaft, breaking three boards that covered the bottom of the shaft, killing him instantly. He leaves a widow and two children.

Jan. 15, 1903, John Hassel, miner, aged 24 years, single, employed in the Oakland mine of the Oakland Coal Co., Belleville, was killed by a fall of rock..

Jan. 15, 1903, Benjamin Allen, miner, aged 32 years, married, employed in the Rubey mine of the Rubey Coal Co., near Caseyville, while mining coal on the top that had been shot, the slate gave way, falling on him causing his death. He leaves a widow and one child.

Jan. 20, 1903, George Sartarn, miner, aged 41 years, married, employed in the Wilderman mine of the Missouri & Illinois Coal Co., Belleville, was killed by flying coal from a shot. He was on his way home, was traveling through the back entry; when exactly opposite where a shot had been prepared in a room running parallel with the entry a piece of coal struck him on the head. The hole had been drilled almost through the pillar. He leaves a widow and three children.

Jan. 23, 1903, August Weisenger, miner, aged 27 years, married, employed in Donk Bros. Coal & Coke Co.'s No. 1 mine, Donkville, met his death by being electrocuted. He had been in the habit of fastening empty powder kegs with wire to a live electric wire. This time when coming out of his room, he had forgotten that he had attached a keg to the live wire, he sat down on the keg, falling backward, bringing his head in connection with a return wire, thus making a short circuit; when found by his companion he was dead. He leaves a widow.

March 4, 1903, Frank Flidel, miner, aged 47 years, married, employed in the Staunton Coal Co.'s mine No. 1, Staunton, Madison county, was killed by a fall of clod and coal at the face of his room. He leaves a widow.

March 5, 1903, Everett Turner, miner, aged 22 years, married, employed in the mine of the Odin Coal Co., Odin, Marion county, was killed by a fall of slate at the face of his room. He leaves a widow.

March 9, 1903, George Brendle, miner, aged 49 years, married, employed in the Donk Bros. Coal & Coke Co.'s No. 3 mine, at Troy, Madison county, was killed while mining off a standing shot. He mined into a slip in the roof, thus cutting away the support, the roof gave way, falling on him, causing his death. He leaves six children dependent.

March 31, 1904, L. F. Lemay, miner, aged 45 years, married, leaves a widow and five children; Henry Newhouse, miner, aged 19 years, single; Albert Newhouse, miner, aged 50 years, married, leaves a widow and three children; Charles Lewis, miner, aged 36 years, married, leaves a widow and two children; Frank Deiro, miner, aged 38 years, married, leaves a widow

and two children; John Gichino, miner, aged 30 years, single; Joe Bianco, miner, aged 35 years; single; John Bartels, miner, aged 29 years, married, leaves a widow and two children.

These eight miners were killed by the explosion of a blown-out shot, in the mine of the Sandoval Coal Co., Sandoval, Marion county.

April 13, 1903, Jesse Phillips, driver, aged 18 years, single, employed in the Staunton Coal Co.'s No. 1 mine, Staunton, Macoupin county, was killed while bringing out a trip. Deceased was sitting on the front end of the car, coming to a low place on the entry where he should have gotten off of the car, he was jammed between the car and roof. He was dead when found.

April 18, 1903, John Thomas, miner, aged 41 years, married, employed in the mine, operated by the Royal Coal Co., Belleville, St. Clair county, was killed by a fall of coal at the face of his room. He leaves a widow.

May 1, 1903, Richard Thompson, miner, aged 40 years, married, employed in the Madison Coal Co.'s No. 4 mine, Glen Carbon, Madison county, was instantly killed while loading a car of coal at the face of his room; a piece of clod weighing nearly 2,000 pounds fell on him. He leaves a widow and five children.

May 20, 1903, Jos. Beattie, shooter, aged 32 years, married, employed in the "Nigger Hollow" mine, operated by the St. Louis & O'Fallon Coal Co., Belleville, St. Clair county, was killed by a premature shot. He leaves a widow and three children.

May 25, 1903, F. Messinger, tracklayer, aged 62 years, married, employed in the Madison Coal company's No. 4 mine, Glen Carbon, Madison county, was fatally injured by being jammed between empty pit-cars. He died June 1, 1903, and leaves a widow.

June 4, 1903, Louis Beckemeyer, engineer, aged 19 years, single, was killed by the falling of a bucket full of rock and clay, which was being hoisted out of the shaft of a new mine being sunk by the Buxton Coal company, Buxton, Clinton county. The engineer was hoisting a bucket full of dirt to the top, and before the top man had shoved the truck under the tub, the engineer had lowered the tub, striking the end of the truck, which tilted, causing the contents of the tub to fall back into the shaft, which was 200 feet deep, with the result stated. The deceased was a son of August Beckemeyer, president of the company, and was to be employed as an engineer, but as the law requires that engineers must hold a certificate, a certificated engineer was employed and in charge. Deceased had gone down the shaft to assist the men at the bottom; this was the first time he had gone down the shaft.

Rudolph Kramer was severely injured by the same accident.

Respectfully submitted,

JOHN DUNLOP,

State Inspector of Mines, Sixth District, Centralia.

Fatal Casualties—Sixth District—July 1, 1903.

Date.	Name.	Age.	Occupation.	Residence.	Married	Widows.	Children.	Single.	Dependents	Cause of Accident.
1902										
July 25	J. L. Baker	38	Miner	Central City	1	4			4	Falling slate
26	Ed. J. Long	35	do	Collinsville. 1	1	2			3	do
Aug. 22	Wm. Panier	22	Driver	Mascoutah. 1	1				1	Pit car
27	Wm. Heinckel	25	M. helper	New Baden. 1			1			Falling coal
Sept. 17	Matthew Welmer	59	Miner	Belleville. 1		6			4	Falling slate
Oct. 2	Reece Evans	15	do	Troy			1		1	Falling cage
10	Fred Wieserman	37	do	Donkville			1		1	Falling slate
Nov. 5	Jos. Leshar	18	do	Belleville. 1			1		1	Premature shot
8	Chas. Becker	45	do	do	1	1	3		4	Falling slate
1903										
Jan. 10	G. B. Harris	42	do	Odin	1	1	5		6	Falling coal
13	Jas. Smith	21	do	Breese			1		1	Falling slate
14	Ed Bayles	45	do	Staunton	1	1	2		3	Falling fr'm asc. cage
15	John Hassel	24	do	Ward Stat'n			1		1	Falling rock
15	Benj. Allen	32	do	Caseyville. 1	1	1			2	Falling slate
20	Geo. Sartarn	41	do	Belleville. 1	1	3			4	Flying coal
23	Aug. Weisenger	27	do	Collinsville. 1	1				1	Electrocuted
Mar. 4	Frank Fildel	47	do	Staunton, 1. 1	1				1	Falling clod and coal.
5	Everett Turner	22	do	Odin	1	1			1	Falling slate
9	Geo. Brendle	49	do	Troy	1	9			6	Falling soapstone....
31	L. F. Lemay	45	do	Sandoval	1	1	5		6	Explosion—bad shot.
31	Henry Newhouse	19	do	do			1		1	do
31	Albert Newhouse	50	do	do	1	1	3		4	do
31	Chas. Lewis	36	do	do	1	1	2		3	do
31	Frank Delro	38	do	do	1	1	2		3	do
31	John Gichino	30	do	do			1		1	do
31	Joe Bianco	35	do	do			1		1	do
31	John Bartels	29	do	do	1	1	2		3	do
Apr. 13	Jesse Philipps	18	Driver	Staunton			1		1	Pit car and roof....
18	John Thomas	41	Miner	Belleville. 1	1				1	Falling coal
May 1	Rich Thompson	40	do	Glen Carbon 1	1	5			6	Falling clod
20	Jos. Beattie	32	Shooter	Belleville. 1	1	3			4	Premature blast
25	Ferd Messinger	62	Track layer. 1	Glen Carbon 1	1				1	Pit cars
June 4	Louis Bekemeyer*....	19	Engineer ...	Buxton			1		1	Rock falling from hoisting bucket....
	Total—30				22	19	57	10	70	

* Not included in other tables.

Recapitulation of Fatal Accidents—Sixth District—1903.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Central City..	1	Miners	27	Falling slate	9	Pittenger & Davis No. 3	1
Collinsville ..	2	Drivers	2	Falling coal	3	Abby No. 3.....	1
Mascoutah....	1	Mach. helper..	1	Falling rock	1	Renchler Mining Co	1
New Baden....	1	Shooter	1	Falling soapstone..	2	Muren Coal Co	1
Belleville.....	6	Track layer ..	1	Falling clod	1	St. L. & O'Fallon C. Co.	3
Troy	2			Mining car	4	Donk's No. 3.....	2
Donkville	1			Cage	1	Donk's No. 1.....	2
Odin	2			Premature shot.....	2	Green Mt. Coal Co....	1
Breese	1			Electrocuted	1	Odin Coal Co	2
Staunton	3			Explosion	8	Consolidated Coal Co..	1
Ward Station. 1						Staunton No. 1.....	3
Caseyville....	1					Oakland Coal Co	1
Sandoval.....	8					Ruby Coal Co	1
Glenn Carbon 2						Wildeman Coal Co	1
						Sandoval Coal Co	8
						Royal Coal Co	1
						Madison Coal Ca. No. 4.	2
Total	32		32		32		32

Non-Fatal Casualties—Sixth District—July 1, 1903.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and Cause of Injury.	Time lost—days.
1902									
July 11	John Globmeyer.	32	Mascoutah..	1	.....	1	2	Leg broken; falling rock.....	150
14	Hy Bieble	21	Rentchler ..	.....	1	.....	.....	Body bruised; pit cars.....	30
14	Fred Kuhn	21	Belleville....	.....	1	.....	.....	Foot injured; pit cars.....	20
14	Albert Kohler....	69	Marissa	1	.....	.....	.....	Body injured; falling coal.....	60
16	Jos. Hellrusey ...	24	Collinsville..	.....	1	.....	.....	Ankle injured; jumping into car.....	12
23	Roy Gammon	17	Odin .....	.....	1	.....	.....	Body injured; pit car and props.....	75
24	Wm. Giles	58	Collinsville..	1	.....	.....	1	Face and hand burned; explosion of gas.....	60
24	Hy Beacoriy	27	Staunton	1	.....	.....	1	Body injured; pit cars.....	60
24	Joseph Charley ..	32	Trenton .....	.....	1	.....	.....	Foot injured; pit car.....	30
Aug. 19	Richard Myrtle....	52	Central City ..	1	.....	.....	1	Body injured; falling slate.....	150
27	W. Ricks	40	New Baden....	.....	1	2	3	Leg injured; falling coal.....	42
Sept. 15	E. G. Burton	30	Staunton	1	.....	3	4	Foot injured; electric machine	30
18	Chas. Bodhenski..	35	New Baden....	.....	1	.....	.....	Leg broken; falling coal.....	40
27	D. G. Morrell.....	34	Donkville ..	1	.....	3	4	Spinal cord injured; falling clod.....	150
29	Frank Lusch	19	Odin .....	.....	1	.....	.....	Finger amputated; falling slate.....	25
Oct. 3	Hy Dietrich	60	Belleville....	1	.....	.....	1	Ribs broken; falling coal.....	30
6	Sam Blattner	65	Freeburg	1	.....	.....	1	Leg broken; falling coal.....	50
12	A. Linzen	34	Centralla....	1	.....	.....	1	Body burned; gases from shot	28
17	Adam Meter	37	Glen Carbon ..	.....	1	.....	.....	Leg broken; falling coal.....	40
18	Jos. Boggs	34	Donkville ..	.....	1	.....	.....	Fingers amputated; pit car and rail.....	30
24	A. Podesto	34	do	1	.....	1	2	Leg broken; falling coal.....	50
29	James Louis	40	Edw'rdsv'le ..	.....	1	3	4	Leg fractured; flying coal.....	30
31	Hy Rueter	53	Centralla....	1	.....	.....	1	Hip injured; flying coal.....	174
Nov. 1	Hy Tucker	47	Belleville....	.....	1	6	7	Finger amputated; falling slate.....	40
3	Wm. Curtis	32	Odin	1	.....	.....	1	Ankle broken; falling coal...	75
5	Ed Taylor	23	Centralla....	1	.....	.....	1	Hand mashed between pit cars	30
7	John Weiser	48	Lenz Stati'n ..	1	.....	8	9	Ankle fractured; falling coal and slate.....	30
24	M. M. Lee	25	Freeburg....	.....	1	.....	.....	Leg fractured; thrown from pit car.....	30
Dec. 19	Ben Forsyth.....	20	Centralla....	.....	1	.....	.....	Foot injured; trip of cars...	40
20	T. Lacesa	20	Donkville....	.....	1	.....	.....	Leg broken; falling coal.....	30
22	Wm. Needler	18	do .....	.....	1	.....	.....	Foot crushed; loaded pit cars	50
26	August Fox	22	Collinsville..	.....	1	.....	.....	Leg broken; tail chain.....	30
29	Dominick Gerdlia	32	Troy .....	.....	1	.....	.....	Leg broken; falling clod.....	40
30	Jos. Folts	20	Rentchler ..	.....	1	.....	.....	Collar bone broken; pit cars..	30
1903									
Jan. 13	Clarence Littrell.	15	Centralla....	.....	1	.....	.....	Arm injured; pit cars.....	46
14	Frank Sturge	45	Staunton	1	.....	.....	1	Back injured; lifting car.....	60
14	Wm. Bub	26	do .....	.....	1	.....	.....	Body injured; cage.....	60
19	Henry Foppe	50	Germant'wn ..	1	.....	9	10	Back and ribs injured; falling slate.....	110
19	A. C. Jones	30	Odin .....	.....	1	.....	.....	Face and hands injured; drilling out a shot.....	30
30	Jack Grantume....	35	Collinsville..	1	.....	3	4	Leg broken; pushing pit car..	40
Feb. 3	Stanley Hawley ..	38	Odin	1	.....	4	5	Foot injured; motor.....	40
23	John Stahl	62	Centralla....	1	.....	.....	.....	Leg broken; falling coal.....	*
28	Evan Patriot	26	Belleville....	.....	1	.....	.....	Arm broken; mule and pit cars.....	40
Mar. 2	Sam Randolph....	19	Centralla....	.....	1	.....	.....	Arm broken; knocked down by windy shot.....	38
2	Martin Flatman...	35	do	1	.....	3	.....	Body injured; windy shot.....	22
26	Albert Zether....	35	Freeburg ....	.....	1	.....	.....	Leg and knee injured; falling slate.....	30
31	Frank Day	25	Sandoval ....	.....	1	.....	.....	Body burned; explosion; bad shot.....	90
31	Hy Wheeler	24	do .....	.....	1	.....	.....	do	90
31	Wm. McFadden....	19	do .....	.....	1	.....	.....	do	90
Apr. 9	Fred Backes	19	Centralla....	.....	1	.....	.....	Body injured between car and rib.....	25
30	J. D. Muir	36	Odin.....	.....	1	.....	.....	Finger amputation; electric machine.....	40

Non-Fatal Casualties—Sixth District—July 1, 1903—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury.	Time lost—days.
May 8	Geo. Lindsay.....	53	Edw'rdsv'le	1	....	7	8	Hand injured; falling slate...	40
12	Jos. McCallum.....	47	Centralia	1	....	3	4	Foot injured; falling slate....	35
13	Chas. French.....	45	do	1	....	3	3	Leg injured; falling rock.....	75
14	Mose Perry.....	30	do	1	....	2	3	Body injured between cars....	30
20	Geo. Snodgrass.....	26	Sandoval	1	....	1	1	Body injured; falling slate....	20
23	I. Handoleso.....	41	Staunton	1	....	2	3	Head and internal injuries; falling slate.....	40
June 5	John Shields.....	25	Centralia	....	1	....	1	Leg broken falling from trip.	*
8	H. Arrowsmith.....	24	Odin	1	....	....	1	Ankle injured; falling coal...	20
16	Hy Lukes.....	23	Glen Carbon	....	1	....	1	Body injured; falling coal...	30
16	John Vitkooke.....	40	do	1	....	3	4	do	40
25	M. Haffstatter.....	21	Belleville	1	....	....	1	Jaw bone fractured; pit cars.	40
29	Frank Finklein.....	32	do	1	....	8	5	Collar bone broken; pit cars..	30
	Totals			34	29	73	106		2972

Total men injured.....	63
Not recovered July 1, 1903*.....	2
Number recovered July 1, 1903.....	61
Time lost by men recovered.....	2,972 days
Average days lost by men recovered.....	48.7

Recapitulation of Non-Fatal Accidents—Sixth District—1903.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Mascoutah...	1	Miners.....	27	Falling rock.....	2	St. Clair Co. C. Co.....	1
Rentchler.....	2	Drivers.....	17	Loaded trip.....	3	Sandoval C. Co.....	4
Belleville.....	6	Mine ex'min'r	1	Cars.....	17	Odin C. Co.....	7
Marissa.....	1	Mach. runner.	7	Falling coal.....	16	Madison C. Co. No. 3...	2
Collinsville...	4	Mach. helper.	2	Gas explosion.....	2	Pittenger & Davis, No. 3	6
Odin.....	7	Trip rider.....	2	Falling slate.....	9	Centralia M. & Mfg. Co.,	
Staunton.....	5	Laborer.....	2	Electric machine.....	2	No. 2.....	4
Trenton.....	1	Cage helper.....	2	Falling clod.....	2	Staunton C. Co. No. 1...	5
Central City...	1	Stable boss.....	1	Flying coal.....	1	Madison C. Co. No. 4...	3
New Baden.....	2	Motorman.....	1	Spraging.....	1	Royal C. Co.....	2
Donkville.....	5	Track layer...	1	Cage.....	1	Summit C. Co.....	1
Freeburg.....	3			Drilling shot.....	1	Heppard C. Co. No. 2...	1
Centralia.....	13			Shot explosion.....	3	Pittenger & Davis, No. 4.	3
Glen Carbon...	3			Motor.....	1	Lumaghi C. Co. No. 2...	3
Lenz Station..	1			Windy shot.....	2	Germantown C. Co.....	1
Troy.....	1					Rentchler C. Co.....	3
Germantown..	1					Con. Coal Co.....	2
Edwardsville..	2					Abby Coal Co. No. 3....	1
Sandoval.....	4					Donk Coal Co. No. 1....	5
						Sunlight C. Co.....	1
						Madison C. Co. No. 7....	1
						Dutch Hollow Coal Co..	1
						Highland Coal Co.....	1
						Muren Coal Co.....	2
						Centralia M. & Mfg. Co.,	
						No. 4.....	1
						Borders Coal Co.....	1
						Pittsburg Coal Co.....	1
						Lumaghi C. Co. No. 4...	1
	63		63		63		63

*Recapitulation of Non-Fatal Casualties, Nature of Injuries,
Conjugal Relations and Time Lost—Sixth District—1903.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Leg broken.....	12	5	7	10	510	42.6	19.0
Leg injured.....	4	4	....	10	177	44.1	6.3
Body.....	13	6	7	10	770	59.3	20.6
Foot.....	7	3	4	13	235	33.4	11.1
Ribs.....	3	3	....	11	209	66.6	4.7
Ankle.....	6	4	2	15	207	34.3	9.6
Face.....	3	2	1	2	120	40.0	4.7
Spine.....	1	1	....	4	150	150.0	1.6
Fingers.....	4	1	3	7	135	33.3	6.3
Hip.....	1	1	....	1	174	174.0	1.6
Hand.....	2	2	....	9	70	35.0	3.1
Collar bone.....	2	2	....	10	60	30.0	3.1
Arm.....	4	1	3	1	124	31.1	6.3
Head.....	1	1	....	3	40	40.0	1.6
Total.....	63	36	37	106	2,972	46.3	100.0

Bond County—Sixth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINE.								
1	Sorento Coal Ccal Co.....	Sorento.....	176,000	59,750	93,000	.....	.....	23,250
	Totals .....	.....	176,000	59,750	93,000	.....	.....	23,250

Mines in 1902, 1.

Mines in 1903, 1.

Clinton County—Sixth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Breese Coal & Mfg. Co....	Breese.....	231,001	118,173	58,582	.....	24,026	30,220
2	Con. Coal Co.....	Collinsville ..	195,743	146,927	34,702	.....	468	13,646
3	Muren Coal & Ice Co.....	New Baden....	194,276	.....	154,682	.....	16,437	23,157
4	Trenton Coal Co.....	Trenton	140,452	.....	98,316	.....	11,236	30,900
5	Con. Coal Co.....	do	83,970	1,945	57,334	1,242	550	22,899
6	Germantown Coal Co.....	Germantown..	25,076	9,055	6,630	1,471	1,080	6,840
Totals			870,518	276,100	410,246	2,713	53,797	127,662

Mines in 1902, 6.

Mines in 1903, 6.

Bond County—Sixth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for ship- ment and sup- plied to locomo- tives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non- fatal.	
\$169,141	108	72	180	168,000	4,000	4,000	250	.....	\$0 43 ¹ / ₂	1,760	....	....	1
\$169,141	108	72	180	168,000	4,000	4,000	250	.....	.....	1,760	....	....	

Clinton County—Sixth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for ship- ment and sup- plied to locomo- tives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non- fatal.	
\$184,259	175	30	205	221,601	7,000	2,400	300	231,001	\$0 55	5,000	....	....	1
163,601	150	40	190	188,561	2,047	5,135	207	195,743	49	4,189	1	....	2
174,779	120	36	156	174,832	1,350	18,094	290	.....	.....	2,400	1	....	3
135,992	100	70	170	115,235	1,000	24,217	222	2,300	54	500	....	....	4
69,692	82	53	135	69,974	2,005	11,991	202	.....	.....	515	....	....	5
17,363	60	25	85	20,306	980	3,790	146	25,076	54	1,200	....	1	6
\$745,686	687	254	941	790,500	14,382	65,627	228	454,120	\$0 50.8	13,104	2	3	

Madison County—Sixth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Donk Bros. C. & C. Co., 1	Collinsville ..	393,800	65,900	194,100	.....	6,200	127,600
2	Staunton Coal Co., 1.....	Staunton	304,643	59,762	168,937	.....	24,307	51,637
3	Madison Coal Co., 2	Glen Carbon..	253,301	6,414	177,539	744	414	68,190
4	Madison Coal Co., 4	do	252,479	94,174	107,248	310	401	50,346
5	Donk Bros. Co. Co. Co., 3	Troy	236,300	60,300	120,400	.....	5,070	50,530
6	Lumaght Coal Co., 3.....	Collinsville ..	217,802	12,246	153,675	1,420	6,867	43,594
7	Donk Bros. Co. Co. Co., 2	do	196,200	60,700	79,800	.....	2,100	53,600
8	Con. Coal Co., Abbey, 3..	do	139,063	74,942	43,389	.....	8,641	12,091
9	Con. C. Co., Heinz Bluff..	do	129,670	84,197	32,674	.....	6,132	6,667
10	Kerns-Donnewald C.C., 1	Worden	120,952	16,480	71,073	.....	10,960	22,469
11	Henrietta Coal Co.....	Edwardsville..	56,630	.....	35,120	.....	10,190	11,320
12	Madison Coal Co., 3	do	112,262	4,316	81,573	291	1,078	25,004
13	Con. Coal Co., Brookside	Troy	50,826	33	31,762	693	4,712	13,626
14	Lumaght Coal Co., 1.....	Collinsville ..	49,643	17,113	25,341	.....	3,230	3,959
15	Terminal Coal Co.....	Edwardsville..	4,796	4,556	.....	.....	.....	240
16	Interstate Coal & Mg. Co.	Worden.....	3,000	.....	1,800	.....	800	400
17	The Clover Coal Mg. Co.	New Douglas..	1,210	1,210	.....	.....	.....	.....
Totals			2,522,607	562,343	1,324,431	3,458	91,102	541,273
LOCAL MINES.								
1	Edwardsville Home Trade Coal Co	Edwardsville..	9,800	6,660	.....	.....	568	2,572
2	Bullock Coal Co.....	Collinsville ..	5,049	3,644	.....	.....	1,015	390
3	Frank Eccles	North Alton..	2,210	2,210	.....	.....	.....	.....
4	Frank Kortcamp	do	2,000	2,000	.....	.....	.....	.....
5	Geo. Kabel	Moro	1,400	1,400	.....	.....	.....	.....
6	Wm. Backs	Carpenter	1,281	1,281	.....	.....	.....	.....
7	Perry Meyers	Bethalto	1,200	1,200	.....	.....	.....	.....
8	John Spencer	do	1,200	1,200	.....	.....	.....	.....
9	Peter Sydall	North Alton ..	1,200	1,200	.....	.....	.....	.....
10	James Hill	Fosterburg ..	1,080	1,080	.....	.....	.....	.....
11	Sam McDonald	Moro	1,000	1,000	.....	.....	.....	.....
12	John E. Mitchell	Prairie town ..	1,000	1,000	.....	.....	.....	.....
13	F. R. Fredericks	Upper Alton ..	360	360	.....	.....	.....	.....
14	W. Richardson	Moro	200	200	.....	.....	.....	.....
Totals			28,980	24,435	.....	.....	1,583	2,962
Totals—31 mines..			2,551,587	586,778	1,324,331	3,458	92,685	434,213

Mines in 1902, 28.

New mines, 7.

Abandoned mines, 4.

Mines in 1903, 31.

Madison County—Sixth District--Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employees	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$295,480	316	136	452	337,680	120	6,000	263	224,400	*	8,334	2	5	1
228,534	211	102	313	296,375	2,108	6,160	213	.....	.....	1,852	3	6	2
187,087	140	67	207	229,981	3,609	20,811	237	.....	.....	1,565	.....	.....	2
209,981	150	50	200	237,255	.....	15,224	237	.....	.....	1,748	.....	3	4
263,370	190	124	314	227,900	1,500	6,600	232	236,300	*	5,077	.....	.....	5
169,760	140	102	242	215,162	.....	2,640	291	.....	.....	1,860	.....	2	6
156,905	107	103	210	189,700	1,500	6,000	200	28,848	*	8,335	.....	.....	7
113,309	76	76	152	123,003	4,223	11,837	252	.....	.....	928	1	1	8
108,081	76	48	124	123,278	483	5,909	207	.....	.....	944	.....	.....	9
112,961	106	44	150	116,422	2,455	2,105	247	8,567	*	1,352	.....	.....	10
57,144	47	17	64	103,224	2,975	6,063	275	62	†	1,054	.....	2	11
87,403	85	61	146	45,067	9,763	1,800	223	56,630	*	1,888	.....	.....	12
47,936	42	26	68	44,220	3,648	2,958	231	50,826	*	1,128	.....	.....	13
39,109	97	33	130	45,137	3,240	1,266	209	49,643	*	2,231	.....	1	14
5,072	6	6	12	4,656	.....	240	141	4,796	†	191	.....	.....	15
2,520	15	17	32	2,640	.....	360	120	3,000	†	150	.....	.....	16
2,420	6	4	10	475	404	331	.....	1,210	\$0 75	100	.....	.....	17
\$2,087,071	1,810	1,016	2,826	2,390,075	36,228	96,304	224	664,282	\$0 506	38,737	10	21	
\$11,201	12	6	18	.....	8,900	900	300	9,800	\$0 54	295	.....	.....	1
6,832	6	3	9	.....	4,659	390	290	5,049	60	123	.....	.....	2
3,978	6	1	7	.....	2,210	.....	240	2,210	1 25	.....	.....	.....	3
3,600	4	1	5	.....	2,000	.....	200	2,000	1 15	.....	.....	.....	4
2,100	4	2	6	.....	1,400	.....	200	1,400	88	15	.....	.....	5
1,921	3	1	4	.....	1,281	.....	200	1,281	1 00	50	.....	.....	6
1,500	6	2	8	.....	1,200	.....	200	1,200	875	.....	.....	.....	7
1,500	6	2	8	.....	1,200	.....	182	1,200	875	.....	.....	.....	8
2,100	4	1	5	.....	1,200	.....	200	1,200	1 25	.....	.....	.....	9
1,620	3	1	4	.....	1,080	.....	180	1,080	875	4	.....	.....	10
1,500	4	2	6	.....	1,000	.....	200	1,000	875	4	.....	.....	11
1,500	2	1	3	.....	1,000	.....	200	1,000	875	25	.....	.....	12
630	2	1	3	.....	360	.....	100	360	1 00	1	.....	.....	13
300	2	1	3	.....	200	.....	150	360	875	.....	.....	.....	14
\$40,232	64	5	89	.....	27,690	1,290	202	29,140	\$0 79	517	.....	.....	
\$2,087,359	1,874	1,041	2,915	2,390,075	63,918	97,594	.....	693,422	.....	39,254	10	21	

* From July 1, 1902, to April 1, 1903, mining price, 49 cents. From April 1, 1903, to July 1, 1903, mining price, 55 cents.

† From July 1, 1902, to April 1, 1903, mining price, 55 cents. From April 1, 1903, to July 1, 1903, mining price, 61.

‡ From July 1, 1902, to April 1, 1903, mining price, 54 cents. From April 1, 1903, to July 1, 1903, mining price, 60 cents.

Marion County--Sixth District--1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Pittenger & Davis M. & Mfg. Co., 3 and 4.....	Centralia	391,176	101,081	178,949	17,165	8,148	85,833
2	Centralia M. & M. Co., 2..	do	272,905	44,837	157,866	.....	17,186	53,016
3	Odin Coal Co	Odin	218,713	57,740	109,597	.....	22,934	28,392
4	Sandoval Coal Co.....	Sandoval	108,015	108,015	.....	.....	.....	.....
5	Kinmundy Coal Co.....	Kinmundy....	5,923	5,923	.....	.....	.....	.....
6	Salem Coal Co.....	Salem.....	5,315	5,315	.....	.....	.....	.....
Totals—6 mines.....			1,002,047	322,911	446,412	17,165	48,318	167,241

Mines in 1902, 6.

Mines in 1903, 6.

Marion County—Sixth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine					Number of fatal.	Number of non-fatal.	
\$310,317	253	138	391	343,720	16,566	30,890	270	391,176	\$0 45	10,487	1	10	1
225,424	190	104	294	246,143	17,801	8,961	255	272,905	45	7,537	....	4	2
196,425	157	73	230	198,954	10,850	8,909	293	5,672	45	2,121	2	7	3
108,015	137	45	182	96,512	3,495	8,005	175	108,015	45	4,043	8	4	4
7,105	21	17	38	2,687	781	2,455	.....	5,923	56	97	....	....	5
8,775	7	4	11	782	3,253	1,280	193	5,315	56	87	....	....	6
\$856,059	765	381	1,146	888,798	52,749	60,500	198	789,006	\$0.452	24,372	11	25	

St. Clair County—Sixth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Royal Coal Co., Royal.....	Belleville.....	197,300	37,800	136,200	.....	.....	23,300
2	St. Louis & O'Fallon C.C.	.. do	150,339	150,339	.....	.....	.....	.....
3	Muren Coal & Ice Co., 1..	.. do	124,061	124,061	.....	.....	.....	.....
4	Walnut Hill Coal Co.	.. do	121,243	.....	96,692	.....	12,279	12,272
5	Kolb Coal Co., 1.....	Mascoutah	117,799	44,584	55,499	.....	5,816	11,900
6	Madison Coal Co., 7	Glen Carbon..	102,881	21,153	61,327	.....	6,173	14,228
7	Missouri & Illinois C. C..	Rentchler	98,076	35,720	51,519	.....	9,155	1,682
8	Joseph Taylor, Mentor....	O'Fallon	97,125	6,340	61,340	.....	14,265	15,180
9	Glendale Coal Co., 1.....	Belleville	94,200	.....	71,800	.....	15,900	6,500
10	Kolb Coal Co., 2.....	Mascoutah	88,796	.....	74,147	.....	.....	14,649
11	Lenz C. & M.C., Harmony	Belleville	81,541	20,369	48,938	.....	.....	12,234
12	Joseph Taylor, Taylor	O'Fallon	81,073	61,233	12,365	.....	4,130	3,345
13	Lebanon Coal & M. Assn	Lebanon	75,553	.....	52,885	3,778	6,044	12,846
14	Hippard Coal Co., 2.....	Belleville	70,770	10,989	41,612	.....	.....	18,139
15	Hippard Coal Co., 1.....	.. do	69,775	33,738	26,660	.....	397	8,980
16	Belleville & O'Fallon C.C.	.. do	62,995	.....	48,580	.....	4,725	9,690
17	Daniel Zildorph	Marissa	60,930	34,620	20,515	.....	.....	5,795
18	Valley Coal & Mining Co.	East St. Louis	60,000	.....	40,000	.....	5,000	15,000
19	Borders Coal Co.	Marissa	59,200	22,600	27,450	.....	950	8,200
20	Oakland Coal Co.	Belleville	57,758	33,982	19,535	.....	.....	4,271
21	Summit Coal Co.	.. do	55,782	32,654	18,593	.....	.....	4,545
22	Ruby Coal Co.	Caseyville	55,000	18,000	22,000	.....	8,000	7,000
23	Dutch Hollow Coal Co.	Freeburg	51,766	.....	38,825	.....	2,000	10,941
24	Con. Coal Co., Green Mt..	Belleville	50,891	4,831	36,358	.....	.....	9,705
25	Con. Coal Co., Gartside 4.	.. do	49,324	5,027	35,131	.....	.....	9,166
26	Superior Coal & M. Co.	.. do	49,232	49,232	.....	.....	.....	.....
27	Skellet Coal Co.	.. do	49,048	3,195	36,564	.....	1,588	7,701
28	O'Fallon Coal & M. Co.	O'Fallon	48,476	15,792	20,945	226	7,630	3,883
29	Con. Coal Co., White Oak	Marissa	48,101	42,240	2,683	.....	.....	3,178
30	Chas. Hartman	Belleville	48,040	24,744	19,796	.....	.....	3,500
31	Con. Coal Co., Schureman	.. do	47,335	7,988	30,141	.....	.....	9,256
32	Oak Hill Coal Co.	.. do	46,985	431	38,997	.....	2,434	5,123
33	Tirre & Sons Coal Co.	Lenzburg	46,620	5,300	31,120	.....	.....	10,200
34	Mo. & Ill. C. C., Freeburg	Belleville	46,567	13,341	24,412	.....	7,118	1,696
35	Eureka Coal Co.	Marissa	46,235	15,827	23,959	.....	1,479	4,970
36	M. & I. C. C., Wilderman	Belleville	45,751	18,221	19,367	.....	.....	8,163
37	Highland Coal Co., 1.....	.. do	44,944	7,852	27,999	.....	1,343	7,750
38	Sunlight Coal Co., 1.....	Freeburg	40,199	7,695	28,427	.....	1,191	2,886
39	Johnson Coal Co.	Marissa	35,118	6,192	23,140	.....	640	5,145
40	Enterprise Mining Co.	Rentchler	34,125	5,245	25,450	.....	.....	3,430
41	Theo. Michaels, Pittsburg	Belleville	32,131	.....	29,240	.....	2,535	356
42	Donk Bros. Coal & C. Co.	.. do	31,660	18,100	10,900	.....	460	2,200
43	Con. Coal Co., Richland..	.. do	30,255	17,327	8,597	.....	.....	4,331
44	Glendale Coal Co., 2.....	.. do	28,450	.....	24,300	.....	.....	4,150
45	Humboldt Coal Co.	.. do	24,840	20,204	.....	.....	.....	4,636
46	Con. Coal Co., Rose Hill.	.. do	24,144	2,432	16,492	.....	.....	5,220
47	Advance Coal Co.	Marissa	20,000	.....	15,000	.....	.....	5,000
48	Fred Murphy	Belleville	20,000	17,000	.....	.....	.....	3,000
49	Suburban Coal Co.	.. do	19,707	19,307	.....	.....	.....	400
50	Lake Superior Coal Co.	.. do	15,062	2,032	9,500	.....	.....	3,530
51	Millstadt Coal Co.	Millstadt	12,000	.....	12,000	.....	.....	.....
52	Con. Coal Co., Knecht....	Belleville	8,900	2,466	5,180	.....	.....	1,254
53	Dutch Hill Coal Co.	New Athens..	7,143	.....	5,000	.....	2,143	.....
Totals			3,085,279	1,020,153	1,587,200	4,004	123,395	350,527

St. Clair County—Sixth District—Continued.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$188,510	120	22	142	190,100	.....	7,200	278	29,203	*	2,201	1	2
127,788	115	30	145	148,329	.....	2,010	300	150,339	*	5,048	3	2
105,452	85	25	110	114,161	2,340	7,560	285	56,230	*	1,690	.....	3
96,845	64	19	83	118,038	105	3,100	264	.....	*	1,100	.....	4
110,741	73	26	99	105,184	5,898	6,717	294	84,306	*	2,945	.....	5
86,702	75	22	97	99,993	729	2,160	280	102,881	*	3,045	.....	6
82,433	68	19	87	96,206	188	1,682	200	95,076	*	2,295	1	3
83,778	76	25	101	89,330	3,220	4,575	228	97,125	*	2,124	.....	7
89,580	82	25	107	84,600	3,100	6,500	225	24,300	*	1,250	.....	8
71,370	62	9	71	87,596	.....	1,200	210	89,796	*	2,960	.....	9
78,688	60	22	82	80,541	.....	1,000	240	17,405	*	1,200	.....	10
61,229	57	21	78	75,568	3,570	1,935	196	81,073	*	2,087	.....	11
90,925	60	40	100	65,503	4,850	5,200	210	.....	*	960	.....	12
55,517	50	20	70	63,570	.....	7,200	200	35,385	*	1,207	.....	13
57,781	54	32	86	62,278	980	6,517	225	69,775	*	2,111	.....	14
52,959	56	16	72	60,489	9,220	3,286	212	43,890	*	1,304	.....	15
54,508	41	16	57	59,576	729	625	193	60,930	*	1,531	.....	16
43,500	35	13	48	59,000	.....	1,000	200	.....	*	600	.....	17
52,192	38	12	50	55,450	3,100	650	162	59,200	*	1,605	.....	18
48,134	47	18	65	55,260	224	2,304	288	.....	*	432	1	19
46,773	40	15	55	55,062	120	600	208	55,782	*	1,584	.....	20
45,780	40	17	57	53,000	200	1,800	238	55,000	*	1,750	1	21
42,907	40	11	51	49,000	766	2,000	200	51,766	*	1,296	.....	22
38,625	22	15	37	47,197	6	3,691	240	.....	*	311	1	23
37,423	14	8	22	44,242	93	4,989	236	.....	*	342	.....	24
39,386	24	15	42	47,932	.....	1,300	225	.....	*	553	.....	25
37,253	50	16	66	42,984	640	5,414	261	18,596	*	797	.....	26
46,602	51	18	69	45,550	1,344	1,582	192	17,424	*	846	.....	27
32,774	30	21	51	45,303	114	2,684	225	48,101	*	905	.....	28
43,960	27	8	35	43,840	4,000	200	270	48,040	*	616	.....	29
34,994	30	17	47	43,718	161	3,456	223	.....	*	273	.....	30
43,121	28	10	38	43,452	853	2,680	268	8,040	*	630	.....	31
35,308	36	14	50	35,220	9,300	2,100	215	46,620	*	1,073	.....	32
37,762	43	12	55	44,862	9	1,636	172	46,567	*	1,248	.....	33
37,156	45	13	58	42,860	1,575	1,800	180	20,492	*	804	.....	34
34,256	29	12	41	43,913	78	1,760	210	45,751	*	1,303	1	35
65,969	28	13	41	39,820	4,284	840	290	44,944	*	929	.....	36
34,717	36	8	44	34,607	1,000	6,592	250	40,199	*	1,000	.....	37
27,173	24	12	36	31,638	.....	3,480	250	3,119	*	850	.....	38
27,787	20	9	29	33,245	150	730	228	34,125	*	960	.....	39
25,333	22	7	29	30,455	1,320	356	280	32,131	*	915	.....	40
31,584	50	21	71	30,400	.....	1,260	182	31,680	*	600	.....	41
20,946	26	9	35	27,693	110	2,452	198	.....	*	269	.....	42
28,565	28	8	36	22,850	3,000	2,600	198	28,450	*	720	.....	43
22,058	20	9	29	20,235	4,105	500	255	24,840	*	345	.....	44
17,848	20	9	29	23,024	.....	1,120	222	.....	*	166	.....	45
20,750	20	9	29	18,400	1,000	600	150	20,000	*	500	.....	46
14,750	14	5	19	15,000	5,000	.....	250	20,000	*	500	.....	47
16,511	10	4	14	19,307	.....	400	100	19,707	*	300	.....	48
12,898	30	9	39	13,462	1,300	300	123	15,062	*	462	.....	49
12,000	25	6	31	10,500	1,000	500	250	12,000	*	.....	.....	50
6,700	14	8	22	7,999	.....	901	100	.....	*	74	.....	51
5,857	20	9	29	4,350	2,443	350	90	7,143	*	286	.....	52
\$2,644,058	2,274	812	3,086	2,871,892	82,223	131,164	223	1,894,470	\$0.505	60,602	9	14

* Average of two contract prices, 49 and 55 cents.

St. Clair County—Sixth District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	Abel Bros	Belleville.....	9,000	6,000	2,000	.....	.....	1,000
2	Frank Sargent.....	.. do	9,000	4,000	4,000	.....	500	500
3	Taylor Bros.....	.. do	5,000	5,000	.....	.....	.....	.....
4	Tower Grove Coal Co.....	.. do	5,000	4,800	.....	.....	.....	200
5	John Harst	.. do	4,500	4,500	.....	.....	.....	.....
6	James Beatty	Mascontah	4,500	4,100	.....	.....	.....	400
7	Wm. Pistor	Millstadt	3,500	3,500	.....	.....	.....	.....
8	Louis Grossman	High Prairie	1,000	1,000	.....	.....	.....	.....
9	Brennen & Co	Caseyville	800	800	.....	.....	.....	.....
10	Dietrich Bros.....	Fayetteville	800	800	.....	.....	.....	.....
11	Reeb Bros	Belleville.....	2,000	2,000	.....	.....	.....	.....
12	Georgetown Road C. Co	.. do	2,000	2,000	.....	.....	.....	.....
13	Davis & Co	French Vill'ge	500	500	.....	.....	.....	.....
14	Benj. Johnson	High Prairie	800	800	.....	.....	.....	.....
15	Ritchie & Co	French Vill'ge	500	500	.....	.....	.....	.....
16	Jos. Smith	High Prairle	500	500	.....	.....	.....	.....
Totals			49,400	40,800	6,000	.....	500	2,100
Totals—69 mines..			3,134,679	1,060,953	1,593,200	4,004	123,895	352,627

Mines in 1902, 70.

New mines, 4.

Abandoned, 5.

Mines in 1903, 69.

St. Clair County—Sixth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$ 8,040	8	4	12	.....	8,500	500	250	9,000	\$0 49	216	.....	.....	1
11,625	8	4	10	.....	8,500	500	250	9,000	49	240	.....	.....	2
6,250	5	1	6	.....	5,000	.....	260	5,000	49	25	.....	.....	3
6,000	5	1	7	.....	5,000	.....	200	5,000	49	222	.....	.....	4
6,750	3	1	4	.....	4,500	.....	260	4,500	49	150	.....	.....	5
5,412	3	2	5	.....	4,000	500	200	4,500	49	266	.....	.....	6
5,250	7	2	9	.....	3,500	.....	200	3,500	49	.....	.....	.....	7
1,250	1	1	3	.....	1,000	.....	200	1,000	75	20	.....	.....	8
1,000	2	1	3	.....	800	.....	150	800	55	20	.....	.....	9
1,000	3	2	5	.....	800	.....	130	800	50	20	.....	.....	10
2,500	4	1	5	.....	2,000	.....	250	2,000	54	40	.....	.....	11
2,500	4	1	5	.....	2,000	.....	260	2,000	50	40	.....	.....	12
625	3	1	4	.....	500	.....	100	500	50	10	.....	.....	13
1,000	2	1	3	.....	800	.....	100	800	† 75	2	.....	.....	14
625	2	1	3	.....	500	.....	.....	500	50	10	.....	.....	15
625	2	.....	2	.....	500	.....	100	500	† 75	10	.....	.....	16
<u>\$60,452</u>	<u>62</u>	<u>24</u>	<u>86</u>	<u>.....</u>	<u>47,900</u>	<u>1,500</u>	<u>181</u>	<u>49,400</u>	<u>\$0 50</u>	<u>1,291</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>
\$2,704,510	2,336	836	3,172	2,782,615	130,123	132,664	.....	1,943,870	.....	61,893	9	14	.....

† Per day.

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bond.....	1	176,000	59,750	93,000	.....	.....	21,855	1,395	\$169,141
Clinton	6	870,518	276,100	410,246	2,713	53,797	100,690	26,972	745,686
Madison	17	2,522,607	562,343	1,324,431	3,458	91,102	431,251	110,022	2,087,077
Marion.....	6	1,002,047	322,911	446,412	17,165	48,318	87,529	79,712	856,059
St. Clair	53	3,085,279	1,020,153	1,587,200	4,004	123,395	331,293	19,234	2,644,058
Totals and averages	83	7,656,451	2,241,257	3,861,289	27,340	316,612	972,618	237,335	\$6,502,021

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Madison	14	23,980	24,435	.....	.....	1,583	2,962	.....	\$40,232
St. Clair.....	16	49,400	40,800	6,000	.....	500	1,100	1,000	60,462
Totals and averages	30	78,380	65,235	6,000	.....	2,083	4,062	1,000	\$100,734
Totals district—all mines..	113	7,734,831	2,306,492	3,867,289	27,340	318,695	976,680	238,356	\$6,602,755

Sixth District—1903—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
108	72	180	168,000	.....	4,000	4,000	250	.....	176,000	.....	\$0.435	1,760	..	..
687	251	941	754,509	36,000	14,382	65,627	228	454,120	416,398	\$0.508	.45	13,104	2	3
1,810	1,016	2,826	2,354,940	35,135	36,228	96,304	224	664,282	1,858,325	.506	.435	38,737	10	21
765	391	1,146	740,226	148,572	52,749	60,500	195	789,006	213,041	.452	.38	24,372	11	25
2,274	812	3,086	2,782,615	89,277	82,223	131,164	223	1,894,470	1,190,809	.505	.435	60,602	9	14
5,644	2,535	8,179	6,800,290	308,984	189,582	357,595	225	3,801,878	3,854,573	\$0.4945	\$0.4337	138,575	32	63

Sixth District—1903—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.					TONS MINED.			PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties	Number non-fatal casualties.
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.	Average number of days in operation.	By hand.	By machine.	Hand mining.	Machine mining.				
64	25	89	.....	.....	27,690	1,290	211	28,980	.....	\$0.79	.....	.....	517	..	..
62	24	86	.....	.....	47,900	1,500	182	49,400	.....	.50	.....	.....	1,291	..	..
126	49	175	.....	.....	75,590	2,790	195	78,380	.....	\$0.607	.....	.....	1,808	..	..
5,770	2,584	8,354	6,800,290	308,984	265,172	360,385	.....	3,880,258	3,854,573	.....	.....	.....	140,383	32	63

SEVENTH INSPECTION DISTRICT—1903.

EIGHTH ANNUAL REPORT.

Counties—Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Wabash, Washington, Williamson.

EVAN D. JOHN, *Inspector, Carbondale.*

HON. DAVID ROSS,

Secretary State Bureau of Labor Statistics, Springfield, Ill.

SIR—In compliance with section 12 of the general mining law of the State, I have the honor to submit the eighth annual report of the coal mines in the Seventh Inspection district, for the year ended June 30, 1903. This district comprises the coal producing counties of Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Wabash, Washington and Williamson.

The report shows tabulated statements giving the number of mines in operation in each county, both shipping and local; the number of new and abandoned mines; the total number of persons employed at each mine; the total tons produced and the different grades, consisting of lump, mine run, egg, nut, pea, or screenings, and slack or waste coal; the average value of each grade and the aggregate value of the total product; the fatal and non-fatal casualties in and around the mines; the number of wives made widows, and the number of children left fatherless by the fatal accidents; the average number of days worked; the quantity of powder used; the number of mining machines used, and the total tons of coal cut by machines; the total number of tons produced by hand mining:

Number of counties producing coal.....	11
Total number of mines.....	134
Number of shipping mines.....	70
Number of local mines.....	64
Number of mines abandoned during the year.....	5
Number of new mines opened during the year.....	12
Number of mines using machines.....	13
Number of machines in use.....	76
Tons of coal cut by machines.....	1,184,541
Tons of coal mined by hand.....	4,490,059
Total tons of coal produced.....	5,674,600
Tons of mine run.....	1,555,273
Tons of lump.....	1,621,228
Tons of egg.....	516,707
Tons of nut.....	767,438
Tons of pea or screenings.....	1,021,040
Tons of slack or waste.....	192,914
Aggregate value of total product.....	\$5,339,004

Average value of mine run coal per ton at mines.....	\$1.167
Average value of lump coal per ton at mines.....	\$1.142
Average value of egg coal per ton at mines.....	\$1.50
Average value of nut coal per ton at mines.....	\$0.944
Average value of screenings per ton at mines.....	\$0.60
Average value of slack or waste coal per ton at mines.....	\$0.25
Number of miners.....	4,782
Number of other employes under ground.....	1,409
Number of boys employed under ground.....	179
Number of employes above ground.....	986
Total number of employes.....	7,356
Average number of days of operation for shipping mines.....	201
Number of kegs of powder used in blasting coal.....	147,581
Number of kegs of powder used for other purposes.....	413
Number of fatal accidents.....	24
Number of non-fatal accidents.....	56
Number of widows.....	14
Number of children made fatherless.....	51
Number of tons of coal produced to each fatal accident.....	236,442
Number of tons of coal produced to each non-fatal accident.....	101,332
Number of persons employed to each fatal accident.....	307
Number of persons employed to each non-fatal accident.....	131

FATAL ACCIDENTS.

September 27, 1902, Chas. Jacobs, miner, aged 28 years, married, was instantly killed by a premature blast at his working place in mine No. 1 of the Willis Coal & Mining Co., Willisville, Perry county. He leaves a widow and one child.

October 21, 1902, Howard Jones, miner, aged 14 years, working with his father as a miner, was killed by being run over on the main entry, by loaded mine cars in No. 7 shaft of the Big Muddy Coal & Iron Co., Herrin, Williamson county.

Nov. 18, 1902, John Bush, sinker, single, employed by the New Coal company, Harrisburg, Saline county, was killed by falling out of the sinking bucket to the bottom of the shaft, a distance of 30 feet.

Nov. 21, 1902, Henry Maloney, miner, aged 50 years, married, was killed while working in a pillar by a fall of coal in the Harrison mine of the Big Muddy Coal & Iron company, Murphrysboro, Jackson county. He leaves a widow and ten children.

Nov. 24, 1902, John Haggard, miner, aged 40 years, and his son, Leroy Haggard, aged 14 years, were severely burned by the explosion of a tight shot in the mine of the Williamson County Coal company, Lake Creek, Williamson county. The son died two days after the accident, the father died Dec. 4. Deceased and his son had finished their day's work, and started for the bottom of the shaft, through the third north entry; when but a short distance from the face of the entry, John Fehrenbaker, who was working in a room next to the face of the entry, lighted a shot; when the shot exploded the blaze shot out of Fehrenbaker's room and back onto the entry, a distance of 200 feet, burning Haggard and his son severely and causing their death. Fehrenbaker's shot was drilled 8 feet deep and was charged with over 6 feet of powder. The hole was planted in such a manner that any other result than a blown-out shot was improbable. John Haggard leaves a widow and four children.

Nov. 29, 1902, Robert Hankins, cager, aged 27 years, single, employed at the Dawes shaft of the St. Louis Big Muddy Coal company, Dewmaine, Williamson county, was severely injured by a piece of coal falling down the shaft, striking him on the head; he died at Cairo about three weeks after the accident.

Dec. 9, 1902, Lewis Colombo, miner, aged 40 years, married, was killed by a fall of top coal at his working face in the mine of the Sunnyside Coal company, Herrin, Williamson county. He leaves a widow and three children.

Jan. 1, 1903, Chas. Coats, miner, aged 42 years, married, was killed by a fall of slate at his working place in the mine of the Chicago & Big Muddy Coal company, Marion, Williamson county. He leaves a widow and seven children, two dependant.

Jan. 2, 1903, John Hager, miner, aged 61 years, married, was killed by a fall of slate, while at work in a pillar in the shaft of the Greenwood Davis Coal company, Duquoin, Perry county. He leaves a widow and six children.

Jan. 16, 1903, Alonzo Haney, driver, aged 28 years, married, was killed at No. 6 mine of the Big Muddy Coal & Iron company, Murphysboro, Jackson county. He was caught and pushed into the sump at the bottom of the shaft by two loaded pit-cars falling on him in the sump. He leaves a widow and one child.

Jan. 16, 1903, Chris. Brandthrost, miner, aged 56 years, married, was instantly killed by a premature blast in his room in the mine of the Hugh Murray Coal company, Nashville, Washington county. He leaves a widow and seven children.

Jan. 24, 1903, C. H. Jones, miner, aged 52 years, married, was killed by a fall of slate in his room in the mine of the Big Muddy Coal & Iron company, Herrin, Williamson county. He leaves a widow and two children.

Jan. 30, 1903, Thomas Campbell, mine examiner, aged 63 years, married, was severely injured by a fall of top coal and slate; he died Feb. 1, and leaves a widow and two children.

Feb. 2, 1903, John Barker, cager, aged 21 years, single, employed at the mine of the Chicago & Coulterville Coal company, Coulterville, Perry county, was killed by being caught between the end of the ascending cage and the side of the shaft; he was dragged up the shaft a distance of nearly 300 feet.

Feb. 18, 1903, Otis Hale, driver, aged 17 years, single, was killed by being crushed between a mine car and the side of the entry, in mine No. 2 of the Southern Illinois Coal Mining & Washing company, Marion, Williamson county.

March 10, 1903, Newton Watkins, miner, aged 35 years, married, was killed by a fall of slate at his working face in mine No. 1 of the Willis Coal & Mining company, Willisville, Perry county. He leaves a widow and three children.

March 16, 1903, J. R. Alexander, miner, aged 50 years, married, was killed by being crushed by trip of empty mine cars in the Dawes shaft of the St. Louis & Big Muddy Coal company, Dewmaine, Williamson county. He leaves a widow and two children.

May 1, 1903, George Stahl, driver, aged 23 years, single, was killed by falling under a loaded mine car coming out of the first west entry in the mine of the White Walnut Coal company, Pinckneyville, Perry county.

May 25, 1903, James Campbell, miner, aged 20 years, married, was killed by a fall of slate at the face of his working place in the mine of the Horn Colliery company, DuQuoin, Perry county. Deceased had fired a shot and went back to see if it had been successful; while at the face of his room a large piece of slate fell with the result as stated. He leaves a widow.

May 26, 1903, Alfred Williams, miner, aged 36 years, married, was killed by being struck on the head and body by coal flying from a blast fired through the pillar of the adjoining room, in the Dawes mine of the St. Louis & Big Muddy Coal company, Dewmaine, Williamson county. He leaves a widow and one child.

June 2, 1903, James Haneline, miner, aged 33 years, married, was killed by a fall of slate at the face of his working place in the shaft of the Chicago & Carterville Coal company, Herrin, Williamson county. He leaves a widow and two children.

June 4, 1903, Robert Stricklin, machine runner, aged 37 years, married, was killed by a fall of coal in shaft No. 4 of the Gartside Coal company, Murphysboro, Jackson county. Deceased was running a machine in room 36, second north entry, when about a ton of coal fell on him with the result as stated. He leaves a widow and six children.

June 10, 1903, H. C. Alexander, miner, aged 28 years, single, was killed by a premature blast at the face of his working place in the second north entry in the mine of the White Walnut Coal company, Pinckneyville, Perry county.

The tables of the fatal and non-fatal accidents follow, also the tables of counties in the district.

Respectfully submitted,

EVAN D. JOHN,

State Inspector of Mines Seventh District, Carbondale.

Fatal Casualties—Seventh District—July 1, 1903.

Date.	Name.	Age.	Occupation.	Residence (town).	Married.	Widow.	Children.	Single.	Dependents.	Cause of Accident.
1902										
Sept. 27	Chas. Jacobs.....	28	Miner.....	Willisville....	1	1	1	..	2	Premature blast
Oct. 21	Howard Jones.....	14	do	Herrin	..	..	1	..	1	Run over by loaded mine cars
Nov. 18	John Bush	..	Sinker	Harrisburg....	..	..	1	..	..	Falling from sinking bucket into shaft...
21	John Haggard.....	40	Miner.....	Lake Creek....	1	1	5	..	3	Explosion, tight shot
21	Leroy Haggard.....	18	do	do	..	..	1	..	..	do
21	Henry Maloney.....	50	do	Murphysboro..	1	1	10	..	10	Falling coal
29	Robert Hankins....	27	Cager	Dewmaine.....	..	1	3	..	1	Coal fall'g down sh'ft
Dec. 9	Lewis Colombo....	40	Miner.....	Herrin	1	1	3	..	4	Falling coal and slate
1903										
Jan. 1	Chas. Coats.....	42	do	Marion.....	1	1	7	..	2	Falling slate
2	John Hager.....	61	do	DuQuoin.....	1	1	6	..	3	Falling coal and slate
2	Alonzo Haney.....	28	Driver	Murphysboro..	1	1	1	..	2	Run over by loaded mine cars
16	Chris. Brandthrost..	56	Miner.....	Nashville.....	1	1	7	..	2	Premature blast
24	C. H. Jones.....	52	do	Herrin	1	1	2	..	3	Falling coal and slate
30	Thos. Campbell....	63	Examiner....	Lake Creek....	1	1	2	..	3	do
Feb. 2	John Barker.....	21	Cager	Coulterville..	..	..	1	..	1	Caught between cage and side of shaft...
18	Ottis Hale	17	Driver	Marion.....	..	..	1	..	1	Caught bet. mine car and side of entry...
Mar. 10	J. R. Alexander....	50	Miner.....	Dewmaine.....	1	1	2	..	3	Falling coal
16	Newton Watkins....	35	do	Willisville....	1	1	3	..	4	Falling slate
May 1	George Stahl.....	23	Driver	Pinckneyville..	..	..	1	..	1	Fell under loaded mine car
25	James Campbell....	20	Miner.....	DuQuoin.....	1	1	..	..	1	Falling slate
26	Alfred Williams....	36	do	Dewmaine.....	1	1	..	..	1	Flying coal from shot
June 2	James Hanelline....	33	do	Herrin	1	1	2	..	3	Falling slate
4	Robert Stricklin....	37	Mach. runner.	Murphysboro..	1	1	6	..	7	Falling coal
10	H. C. Alexander....	28	Miner.....	Pinckneyville..	..	..	1	..	1	Premature blast
	Total—24				16	16	57	8	53	

Recapitulation of Fatal Casualties—Seventh District—1903.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Willisville....	2	Miners	16	Premature blast	3	W. C. & M. Co.....	1
Herrin	4	Sinker	1	Mine cars	4	B. M. C. & I. Co. No. 7..	2
Harrisburg....	1	Cagers	2	Falling down shaft..	1	The New C. Co.....	1
Lake Creek....	3	Drivers	3	Shot explosion	2	W. Co. C. Co.....	3
Murphysboro..	3	Examiner	1	Falling coal	8	Harrison.....	1
Dewmaine.....	3	Mach. runner.	1	Falling slate	4	Dawes C. Co.....	2
Marion	2			Cage	1	Sunnyside C. Co.....	1
DuQuoin.....	2			Flying coal	1	C. B. M. C. Co.....	1
Nashville.....	1					Greenwood	1
Coulterville..	1					Coulterville C. Co.....	2
Pinckneyville	2					I. C. M. & W. Co. No. 2..	1
						B. M. C. & I. Co. No. 6..	1
						Murray C. Co.....	1
						S. I. C. M. & W. Co.....	1
						W. C. & M. Co. No. 1..	1
						White Walnut C. Co.....	2
						Horn C. Co.....	1
						Gartside N. 4	1
Totals	24		24		24		24

Non-Fatal Casualties—Seventh District—July 1, 1903.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and Cause of Injury.	Time lost—days.
1902									
July 2	Tano Merlo.....	22	Herrin.....	1	1	1	1	Bruised internally; fall'g slate	*
5	William Williams.....	49	DuQuoin.....	1	1	3	4	Leg and hand hurt; fall'g slate	40
15	Peter Trucano.....	50	Willisville.....	1	1	2	3	Arm broken; falling roof.....	60
19	Hugh Forsythe.....	50	Herrin.....	1	1	3	4	Back injured; falling coal.....	45
25	F. M. Gray.....	25	Hallid'yb'ro	1	1	1	2	Leg broken; falling coal.....	60
28	Van Churob.....	45	DuQuoin.....	1	1	1	1	Toe mashed; falling coal.....	45
30	Clarence McNeal.....	28	do.....	1	1	3	4	Toe cut off; falling slate.....	34
Aug. 25	Samuel Good.....	40	Murph'sb'ro	1	1	1	1	Leg bruised; falling slate and coal.....	30
S'pt. 16	Milo Winchester.....	35	Herrin.....	1	1	1	1	Back bruised; falling coal.....	40
15	John Roberts.....	38	Willisville.....	1	1	4	5	Ribs broken; fell in engine room.....	50
17	William French.....	38	Pinckneyv'e	1	1	1	1	Hip injured; falling slate.....	50
Oct. 7	Henry Pessina.....	23	Murph'sb'ro	1	1	1	2	Body injured between car and face of coal.....	40
7	Peter Peterson.....	42	DuQuoin.....	1	1	1	1	Arm injured; falling coal.....	32
8	Nicholas Goalyb.....	32	Murph'sb'ro	1	1	1	1	Toe bruised; falling coal.....	31
12	George King.....	21	Herrin.....	1	1	1	2	Arm injured; kicked by mule.....	40
16	Lewis Branco.....	50	Murph'sb'ro	1	1	2	3	Shoulder injured; fall'g coal.....	34
20	M. C. Cheers.....	40	Hallid'yb'ro	1	1	4	5	Arm broken; flying coal from shot.....	80
23	W. A. Pettingren.....	35	Coulterville	1	1	3	4	Ribs broken; caught under cage.....	50
26	Jos. Vandygraph.....	30	Equality.....	1	1	1	2	Leg broken; pit car and mine door.....	150
Nov. 18	Robert Bush.....	..	Harrisburg.	1	1	2	3	Back injured; falling from sinking bucket.....	*
24	John Hartman.....	35	Lake Creek.....	1	1	1	1	Body burned; explosion tight shot.....	90
24	Clar'nce Haggard.....	14	do.....	1	1	1	1	Body burned; explosion tight shot.....	*
24	J. H. Werr.....	40	Hallid'yb'ro	1	1	1	1	Spine injured; falling cage.....	*
28	Simon Gale.....	21	Dewmanle.....	1	1	1	1	Body bruised; collision mine cars.....	45
.....	William Ealum.....	24	Elkville.....	1	1	1	1	Leg broken; derailment of pit car.....	30
Dec. 1	Andy Malaudrow.....	38	Murph'sb'ro	1	1	1	1	Leg broken; falling slate.....	40
6	Albert Summers.....	17	do.....	1	1	1	1	Body injured; pit car.....	88
7	Sam. Russell.....	33	Willisville.....	1	1	3	4	Shoulder and neck bruised between car and mule.....	30
18	Frank Hall.....	43	DuQuoin.....	1	1	1	1	Back sprained; hoisting cage.....	60
20	William Bowman.....	22	Harrisburg.	1	1	1	1	Legs broken; falling slate.....	90
22	Chas. Webb.....	27	St. Johns.....	1	1	1	1	Thumb cut off spragging mine car.....	30
1903									
Jan. 9	William Aiken.....	21	Herrin.....	1	1	1	1	Leg cut off; railroad car.....	*
.....	O. Boles.....	22	Marion.....	1	1	1	1	Arm broken; pit car.....	30
.....	Chas. Perrin.....	17	do.....	1	1	1	1	Head bruised; falling off mine car.....	30
.....	John Biggs.....	22	do.....	1	1	1	1	Leg broken; collision mine cars.....	50
.....	George Trlbbels.....	30	do.....	1	1	1	1	Leg broken; unloading mining machine.....	52
Feb. 4	Paul Varazarla.....	45	Murph'sb'ro	1	1	3	4	Body bruised; mine car.....	50
9	John Wlrcnem.....	22	do.....	1	1	1	1	Body injured; mine car jumping track.....	69
9	Albert Boston.....	20	do.....	1	1	1	1	Body bruised; falling coal.....	98
16	Burt. Wright.....	23	DuQuoin.....	1	1	1	1	Leg broken; mine car.....	60
26	George Ridde.....	45	do.....	1	1	3	4	Leg bruised; falling coal.....	63
Mar. 21	Clar'nce Holeman.....	25	Pinckneyv'e	1	1	1	2	Shoulder dislocated; falling slate.....	45
Apr. 6	O. R. Stiff.....	32	Harrisburg.	1	1	2	3	Face burned; explosion from shot.....	30
7	John Williams.....	25	DuQuoin.....	1	1	2	3	Finger mashed; mine car.....	30
11	Hugh Carner.....	21	Herrin.....	1	1	1	1	Body bruised between car and mule.....	*
13	R. J. King.....	29	Pinckneyv'e	1	1	1	2	Body bruised; mine car.....	45
May 8	Fred Elliot.....	19	Herrin.....	1	1	1	1	Foot bruised; mine car.....	*
25	Lewis Nodglin.....	28	Willisville.....	1	1	1	1	Finger broken and back bruised; falling timbers.....	30
26	Ed. Tindall.....	32	Herrin.....	1	1	2	3	Hips bruised; collision mine cars.....	*
28	Thomas Harper.....	57	St. Johns.....	1	1	3	1	Back injured; falling slate.....	*

Non-Fatal Casualties—Seventh District—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and Cause of Injury.	Time lost—days.
1903 June 1	James Dare	28	Herrin	1	....	1	2	Body bruised between mule and mine car.....	*
4	Wm. McManes....	33	Murph'sb'ro	1	....	3	4	Back and hips injured; falling coal.....	*
6	Ezra Shoughton..	23	Herrin.....	....	1	....	....	Leg broken; chain breaking..	*
13	Jas. Gillooly, Sr..	47	Murph'sb'ro	1	....	10	11	Head, shoulders and leg bruised; falling slate	*
20	Van. Crowell.....	48	do	1	....	6	7	Finger mashed; mine car.....	*
24	Fred Fisher.....	26	Coulterville	1	....	2	3	Arm broken; timber falling down shaft.....	*
	Total—56			36	20	72	105		2056

* Not recovered July 1, 1903.

Total number injured.....	56
Not recovered July 1, 1903.....	13
Recovered July 1, 1903	43
Time lost by men recovered	2,056 days
Average days lost by men recovered.....	47.8

Recapitulation of Non-Fatal Casualties—Seventh District—1903.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Herrin.....	10	Miners.....	22	Falling slate	9	B. M., C. & I. Co.....	3
DuQuoin	8	Drivers.....	16	Falling roof.....	1	Egyptian	3
Willisville.....	4	Engineers.....	1	Falling coal	9	W. C. & M. Co. No. 1 ..	4
Hallidayboro.	3	Loaders	5	Flying coal	2	T. C. H. Coal Co.....	1
Murphysboro.	12	Cagers.....	2	Engine	1	M. V. M. & M. Co.....	4
Pinckneyville	3	Sinkers.....	1	Cars	21	Pope mine	3
Coulterville ..	2	Spragers.....	1	Mule	1	Gartside No. 3.....	2
Equality.....	1	Laborers.....	5	Cage	3	Sunnyside	3
Harrisburg.....	3	Yardmen.....	1	Falling bucket	1	White Walnut.....	2
Lake Creek	2	Mach. runner.	1	Shot explosion	3	Harrison	3
Dewmanle.....	1	Timbermen ..	1	Spragling	1	Coulterville Coal Co. ..	5
Elkville	1			M. Machine.....	1	Equality Coal Co.....	1
St. Johns	2			Falling timber	1	New Coal Co.....	2
Marion	4			Chain.....	1	W. C. C. Co.....	2
				Fell down shaft.....	1	Dawes	1
						B. M., C. & I. Co. No. 6..	6
						Jupiter No. 1	4
						Saline Coal Co.....	1
						I. S. M. C. W. Co. No. 2 .	4
						Jupiter No. 4	1
						Gartside No. 4	1
Totals	56		56		56		56

*Recapitulation of Non-Fatal Casualties by Nature of Injuries—
Conjugal Relations and Time Lost—Seventh District—1903.*

Nature of Injuries.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Body	18	11	7	25	670	35.0	32.1
Leg.....	4	3	1	9	133	33.1	7.1
Leg broken.....	9	5	4	5	532	59.1	16.2
Arm broken.....	3	2	1	13	170	56.2	5.3
Arm.....	3	2	1	2	32	10.2	5.3
Foot.....	4	2	2	5	110	27.2	7.1
Ribs.....	2	2	.....	9	100	50.0	3.6
Shoulder.....	3	3	.....	9	109	33.2	5.3
Spine.....	1	.....	1	.....	*	.....	1.9
Fingers.....	4	3	1	11	90	22.2	7.1
Head.....	2	1	1	11	30	15.0	3.6
Face.....	1	1	.....	3	30	30.0	1.9
Hip.....	2	1	1	3	50	50.0	3.6
Totals, averages and percentages	56	36	20	105	2,056	36.8	100.0

Not recovered.

Gallatin County—Seventh District—July 1, 1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Gallatin Coal & Coke Co.	Equality.....	35,487	365	21,950	.....	2,665	10,507
2	East Side Coal Co.....	.. do	1,063	.....	600	.....	.....	463
Totals			36,550	365	22,550	.....	2,665	10,970
LOCAL MINES.								
1	Wm. H. McLain	Equality.....	1,950	1,950	.....	.....	.....	.....
2	John Anderson.....	.. do	2,000	2,000	.....	.....	.....	.....
3	Ratley & Co.....	do	2,000	2,000	.....	.....	.....	.....
4	Leon Vogt.....	Shawneetown	850	850	.....	.....	.....	.....
5	R. J. Mitchell.....	do	750	750	.....	.....	.....	.....
6	Srong & Co.....	Saline Mines..	800	800	.....	.....	.....	.....
7	A. J. Smith	do	500	500	.....	.....	.....	.....
Totals			8,850	8,850	.....	.....	.....	.....
Totals—9 mines....			45,400	9,215	22,550	.....	2,665	10,970

Mines in 1902, 8.

New mines, 1.

Mines in 1903, 9.

Hamilton County—Seventh District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	I. R. Yates	Dahlgren.....	600	600	.....	.....	.....	.....
2	J. C. Harper	Flint.....	100	100	.....	.....	.....	.....
Totals			700	700	.....	.....	.....	.....

Mines in 1902, 2.

Mines in 1903, 2.

Gallatin County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$33,240	56	30	86	32,577	1,103	1,807	163	35,487	\$0 51	1,195	....	1	1
922	5	6	11	588	.....	175	40	1,663	51	38	....	....	2
\$34,162	61	46	97	33,465	1,103	1,982	102	36,550	\$0.51	1,233	....	1	
\$1,950	5	2	7	.....	1,950	.....	175	1,950	\$0 51	60	....	....	1
2,500	6	12	18	.....	2,000	.....	180	2,000	51	100	....	....	2
2,500	6	12	18	.....	2,000	.....	180	2,000	51	100	....	....	3
850	.....	.....	.....	.....	850	.....	100	850	—	25	....	....	4
750	.....	1	.....	.....	750	.....	200	750	.....	30	....	....	5
800	.....	.....	.....	.....	800	.....	180	800	.....	30	....	....	6
500	.....	.....	.....	.....	500	.....	102	500	.....	22	....	....	7
\$9,850	25	7	32	.....	8,850	.....	160	8,850	\$0 51	367	....	....	
\$44,012	86	43	129	33,465	9,953	1,982	163	45,400	.....	1,600	....	1	

Hamilton County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$900		4	4	.....	600	.....	100	600	.....	8	....	....	1
150		2	2	.....	100	.....	25	100	.....	2	....	....	2
1,050		6	6	.....	700	.....	63	700	.....	10	....	....	

Jackson County—Seventh District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	B. M. C. & I. Co., 6.....	Murphysboro.	264,073	34,744	109,938	20,789	.....	98,602
2	B. M. C. & I. Co., Harrison ..	do	239,283	923	121,396	.....	.....	116,934
3	M. V. M. & Mfg. Co., 1....	Hallidayboro.	228,885	14,788	134,290	395	14,783	64,629
4	Gartside Coal Co., 4.....	Murphysboro.	78,735	.....	43,717	.....	14,579	15,442
5	Willis C. & M. Co., 2.....	Bryden	64,448	58,012	5,157	.....	.....	1,289
6	Gartside Coal Co., 3.....	Murphysboro.	39,057	.....	26,200	.....	5,172	7,685
7	Desoto C. & W. Co., 1.....	DeSoto	32,800	.....	16,400	.....	16,400	.....
8	Chi. & Carbondale C. Co., 1	Carbondale...	12,000	12,000	.....	.....	.....	.....
Totals			959,264	120,487	462,698	21,184	50,934	304,581
LOCAL MINES.								
1	Gus Blair.....	Murphysboro.	400	400	.....	.....	.....	.....
2	Schmidgall Coal Co.	do	1,024	1,024	.....	.....	.....	.....
3	Robert Poole	do	1,340	1,340	.....	.....	.....	.....
4	E. Sponsler	Carbondale...	1,800	1,800	.....	.....	.....	.....
5	Sebert Phillips	do	1,400	1,400	.....	.....	.....	.....
6	M. M. Thompson Coal Co ..	do	1,000	1,000	.....	.....	.....	.....
7	J. C. Presson	do	1,900	1,900	.....	.....	.....	.....
8	W. H. Myers	do	1,150	1,150	.....	.....	.....	.....
9	O. R. Moss	Vergennes ...	691	691	.....	.....	.....	.....
10	F. Williams	do	250	250	.....	.....	.....	.....
11	John Campbell	do	200	200	.....	.....	.....	.....
12	John Herman.....	Oraville	500	.....	500	.....	.....	.....
13	H. R. King.....	Campbell Hill	154	.....	154	.....	.....	.....
14	D. Dawson.....	do	811	.....	811	.....	.....	.....
15	W. R. Campbell	do	400	.....	400	.....	.....	.....
Totals			13,020	11,155	1,865	.....	.....	.....
Totals—23 mines..			972,284	131,622	463,963	21,184	50,934	304,571

Mines in 1902, 24.

New mines, 2.

Abandoned, 3.

Mines in 1903, 23.

Jackson County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$270,025	167	134	301	250,239	.....	13,834	242	17,804	\$0 51	2,205	1	5	1
240,369	184	89	273	228,213	.....	11,040	212	5,215	51	2,000	1	4	2
242,750	160	115	275	207,673	2,248	18,964	234	228,885	51	8,500	.....	4	3
77,018	52	36	84	71,366	.....	7,352	240	18,438	51	665	1	1	4
82,313	96	48	144	62,586	418	1,454	209	64,458	51	1,896	.....	5	5
38,198	40	23	63	30,467	903	7,685	217	13,283	51	532	.....	2	6
47,560	60	63	123	30,000	400	2,400	120	32,800	51	2,010	.....	7	7
12,000	25	10	35	11,000	400	600	120	12,000	51	300	.....	8	8
\$1,010,233	784	518	1,302	891,564	4,371	63,829	199	392,883	\$0 51	18,108	3	16	
600	2	4	6	.....	400	.....	30	.....	.....	6	.....	.....	1
1,536	6	4	10	.....	824	200	90	1,024	\$0 71	49	.....	.....	2
2,010	3	1	4	.....	1,265	75	154	1,340	92	50	.....	.....	3
1,800	3	.....	3	.....	1,800	.....	120	1,800	51	70	.....	.....	4
1,400	3	1	4	.....	1,400	.....	100	1,400	51	35	.....	.....	5
1,000	2	1	3	.....	1,000	.....	120	1,000	50	28	.....	.....	6
1,900	3	1	4	.....	1,900	.....	160	1,900	*	100	.....	.....	7
1,150	2	1	3	.....	1,150	.....	115	1,150	50	48	.....	.....	8
691	2	.....	2	.....	691	.....	140	691	*	24	.....	.....	9
250	1	.....	1	.....	250	.....	100	250	*	10	.....	.....	10
200	1	.....	1	.....	200	.....	90	200	*	8	.....	.....	11
625	1	1	2	.....	500	.....	200	500	70	30	.....	.....	12
231	2	1	3	.....	154	.....	120	154	*	5	.....	.....	13
1,217	3	1	4	.....	811	.....	140	811	*	30	.....	.....	14
600	2	1	3	.....	400	.....	100	400	*	15	.....	.....	15
15,210	36	17	53	.....	12,745	275	119	12,620	\$0 61	608	.....	.....	
\$1,025,443	820	535	1,355	891,564	17,116	63,604	.....	405,603	.....	18,616	3	16	

* 4,406 tons mined by day.

Jefferson County—Seventh District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINE.								
1	Jefferson County Coal Co	Mt. Vernon...	15,000	8,000	4,000	.....	1,500	1,500
LOCAL MINE.								
1	Sopha A. Shelton.....	Opdyke.....	100	100	.....	.....	.....	.....
	Totals—2 mines.....	.....	15,100	8,100	4,000	.....	1,500	1,500

Mines in 1902, 2.

Mines in 1903, 2.

Johnson County—Seventh District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
	LOCAL MINES.							
1	Dills & Wallace	New Burnside	1,200	1,200	.....	.....	.....	.....
2	McMichael & King.....	.. do	200	200	.....	.....	.....	.....
3	A. J. Edwards & Co.....	.. do	545	545	.....	.....	.....	.....
4	Wm. T. Kilgore	.. do	200	200	.....	.....	.....	.....
5	T. Deaton & Co.....	.. do	400	400	.....	.....	.....	.....
	Totals—5 mines.....	.....	2,545	2,545	.....	.....	.....	.....

Mines in 1902, 5.

Mines in 1903, 5.

Jefferson County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$14,875	24	7	31	6,000	8,500	500	165	15,000	\$0 57	400	....	....	1
150	.....	2	2	.....	100	.....	.....	100	.....	2	.....	.....	1
\$15,025	24	9	33	6,000	8,600	500	165	15,100	\$0 57	402	....	....	

Johnson County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$1,200					1,200	.....	.....	1,200	.....	40	.....	.....	1
200					200	.....	.....	200	.....	7	.....	.....	
545					545	.....	.....	545	.....	20	.....	.....	
200					200	.....	.....	200	.....	7	.....	.....	
400					400	.....	.....	400	.....	14	.....	.....	
\$2,545	12	.....	12	.....	2,545	.....	.....	2,545	.....	88	.....	.....	

Perry County—Seventh District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Willis Coal & Min'g Co., 1	Willisville....	201,211	177,065	16,097	.....	2,012	6,037
2	White Walnut Coal Co., 2	Pinckneyv'le.	150,851	74,120	61,757	2,582	.....	12,392
3	Horn Colliery Co., 3	DuQuoin	106,451	106,451	.....	.....	.....	.....
4	Weaver Coal & Coke Co., 4	.. do	87,096	11,529	26,029	14,625	16,424	18,489
5	Greenwood-Davis C. Co., 5	.. do	77,442	2,000	34,721	2,000	17,488	21,233
6	Willis Coal & Min'g Co., 3	.. do	62,439	624	30,595	11,864	6,243	13,113
7	Weaver Coal Co., 4	Pinckneyv'le.	60,253	11,109	31,817	.....	272	17,055
8	Lake Superior Coal Co., 8	DuQuoin	47,105	.....	31,403	.....	.....	15,702
9	Seper & Co., 9	Cutler	45,994	45,994	.....	.....	.....	.....
10	Bailey Bros. Coal Co., 10	Sunfield	41,750	1,000	30,000	.....	500	10,250
11	Weaver Coal Co., 3	DuQuoin	36,077	6,058	17,305	2,041	420	10,253
12	Old Kentucky Coal Co., 12	Tamaroa	26,729	.....	23,123	.....	.....	3,606
13	Morris Bros., 13	DuQuoin	25,146	2,448	18,163	.....	.....	4,540
14	Little Muddy Coal Co., 14	Tamaroa	20,000	20,000	.....	.....	.....	.....
15	New Moon Mining Co., 15	DuQuoin	11,991	.....	5,595	.....	2,398	3,998
16	Chl. & Coulterville C.C., 16	Coulterville	11,125	3,891	5,957	.....	.....	1,277
17	Strait Coal Co., 17	Pinckneyv'le.	4,000	4,000	.....	.....	.....	.....
18	Weaver Coal Co., 2	DuQuoin	4,092	4,092	.....	.....	.....	.....
19	Lake Superior Coal Co., 19	.. do	3,750	3,750	.....	.....	.....	.....
20	Missouri & Ill. Coal Co., 20	Willisville....	3,529	3,529	.....	.....	.....	.....
Totals			1,027,031	477,655	332,562	33,112	45,757	137,945
LOCAL MINES.								
1	Gruner & Jenner	Pinckneyv'le.	400	400	.....	.....	.....	.....
2	Roe & Co., 2	.. do	400	400	.....	.....	.....	.....
3	Wilson & Snoffard	DuQuoin	2,800	2,800	.....	.....	.....	.....
4	Dan Pyles	.. do	800	800	.....	.....	.....	.....
5	R. F. Glass	Willisville....	200	.....	200	.....	.....	.....
6	Christopher Heifung	Pyatt	120	.....	120	.....	.....	.....
Totals			4,720	4,400	320	.....	.....	.....
Totals—26 mines.....			1,031,751	482,055	332,882	33,112	45,757	137,945

Mines in 1902, 23.

New mines, 3.

Mines in 1903, 26.

Perry County--Seventh District--Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mines.					Number of fatal.	Number of non-fatal.
\$198,213	188	111	299	196,843	868	3,500	259	149,011	\$0 55	5,791	2	4
119,128	110	36	146	148,445	896	1,600	234	150,851	55	4,820	2	2
95,806	100	55	155	99,951	6,500	.....	250	106,451	51	2,560	1	.....
73,900	117	69	186	83,654	1,544	1,898	161	87,096	51	2,140	.....	1
115,371	84	39	123	71,000	3,000	3,442	280	77,442	51	1,600	1	1
61,970	91	46	137	60,182	617	1,640	201	62,439	51	1,840	.....	2
50,887	90	57	147	59,000	262	991	129	60,253	51	1,808	.....	1
39,254	61	20	81	46,272	103	730	254	47,105	51	1,407	.....	3
45,994	50	12	62	38,994	6,000	1,000	200	45,994	55	1,530	.....	9
35,225	50	18	68	39,500	1,500	750	229	41,750	51	1,000	.....	10
29,685	54	40	94	34,842	.....	1,235	158	36,077	55	1,030	.....	2
23,125	31	14	45	24,614	1,079	1,036	152	26,729	51	1,039	.....	12
22,056	22	16	38	24,706	240	200	262	25,146	51	1,500	.....	13
20,000	30	13	43	18,600	1,000	400	185	20,000	51	1,200	.....	14
15,387	12	6	18	7,427	2,564	2,000	185	11,991	51	235	.....	15
9,888	13	6	19	9,307	869	949	171	11,125	55	299	1	2
4,000	8	4	12	2,000	1,800	200	160	4,000	55	120	.....	17
4,092	8	20	28	3,802	.....	290	195	4,092	51	212	.....	18
3,750	10	5	15	2,546	1,146	58	117	3,750	51	134	.....	19
3,529	10	7	18	3,230	29	270	56	3,529	55	77	.....	20
\$970,960	1,139	595	1,734	974,515	29,927	22,189	207	974,831	\$0 526	30,281	7	19
\$ 600	2	1	3	.....	400	.....	80	400	\$0 55	15	.....	1
600	2	1	3	.....	400	.....	80	400	55	15	.....	2
3,500	10	2	12	.....	2,800	.....	80	2,800	51	120	.....	3
1,000	3	3	6	.....	800	.....	98	800	51	20	.....	4
300	2	1	3	.....	200	.....	40	200	55	8	.....	5
180	2	.....	2	.....	120	.....	50	120	55	5	.....	6
\$6,180	21	8	29	.....	4,720	.....	70	4,720	\$0 532	183	.....	.....
\$977,140	1,160	603	1,763	974,515	34,647	22,189	.....	979,551	.....	30,464	7	19

Randolph County—Seventh District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Western Anth. C. & C. Co	Spsrta	107,014	.....	89,000	.....	.....	18,014
2	Coulterville Mining Co...	Coulterville ..	67,052	16,029	25,928	.....	.....	25,095
3	Tilden Coal Co.....	Tilden	53,294	11,358	32,978	.....	1,195	7,733
4	Crystal Coal Co.....	do	49,768	16,589	24,894	.....	.....	8,295
5	Goalby Coal Co.....	Percy	45,792	40,664	2,109	.....	1,284	1,735
6	Rosborough Coal Co....	Sparta	44,875	44,875	.....	.....	.....	.....
7	Illinois Fuel Co. No. 3....	do	44,212	12,085	26,788	.....	.....	5,340
8	Davison & Fulton C. Co..	do	37,296	30,745	6,094	.....	235	222
9	A. E. Powell & Co.....	Coulterville ..	10,487	93	7,691	.....	.....	2,702
10	Illinois Fuel Co. No. 4....	Sparta	5,273	5,273	.....	.....	.....	.....
11	Moffat Coal Co.....	do	4,171	4,171	.....	.....	.....	.....
Totals			469,235	181,912	215,473	.....	2,714	69,136
LOCAL MINES.								
1	Boyle Coal Co.....	Sparta	7,290	7,290	.....	.....	.....	.....
2	George Stanway.....	Blair	1,200	1,200	.....	.....	.....	.....
3	John & George Meyer....	Percy	400	400	.....	.....	.....	.....
Totals			8,890	8,890	.....	.....	.....	.....
Totals—13 mines..			478,125	190,802	215,473	...	2,714	69,136

Mines in 1902, 12.

New mines, 2.

Mines in 1903, 14.

Randolph County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Total mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$93,504	80	40	120	103,514	1,800	1,700	175	107,014	\$0 55	2,700	.....	.....	1
42,425	20	17	37	51,349	2,703	13,000	280	67,052	55	900	.....	.....	2
45,803	50	24	74	49,607	600	3,087	178	53,294	55	1,170	.....	.....	3
43,132	42	18	60	49,418	350	.....	200	49,768	55	1,930	.....	.....	4
39,028	40	12	52	44,057	.....	1,735	244	45,792	55	1,323	.....	.....	5
40,388	50	14	64	44,240	220	415	218	44,876	55	1,753	.....	.....	6
38,356	43	13	56	43,073	120	1,020	227	44,218	55	1,297	.....	.....	7
30,848	33	14	47	36,030	1,266	.....	162	37,296	55	1,331	.....	.....	8
8,451	12	4	16	9,887	.....	600	170	10,487	55	490	.....	.....	9
4,218	8	7	15	4,773	.....	500	117	5,273	55	172	.....	.....	10
4,588	24	7	31	4,078	33	60	40	4,171	55	172	.....	.....	11
<u>\$390,741</u>	<u>402</u>	<u>170</u>	<u>572</u>	<u>440,026</u>	<u>7,092</u>	<u>22,117</u>	<u>197</u>	<u>469,235</u>	<u>\$0 55</u>	<u>13,158</u>	<u>.....</u>	<u>.....</u>	
\$9,842	4	4	8	.....	7,290	.....	275	7,290	\$0 55	200	.....	.....	1
1,200	2	1	3	.....	1,200	.....	120	1,200	55	46	.....	.....	2
490	2	1	3	.....	400	.....	100	400	55	15	.....	.....	3
<u>\$11,442</u>	<u>8</u>	<u>6</u>	<u>14</u>	<u>.....</u>	<u>8,890</u>	<u>.....</u>	<u>165</u>	<u>8,890</u>	<u>\$0 55</u>	<u>261</u>	<u>.....</u>	<u>.....</u>	
<u>\$402,183</u>	<u>410</u>	<u>176</u>	<u>586</u>	<u>440,026</u>	<u>15,982</u>	<u>22,117</u>	<u>.....</u>	<u>478,125</u>	<u>.....</u>	<u>13,419</u>	<u>.....</u>	<u>.....</u>	

Saline County—Seventh District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Davenport Coal Co.....	Ledford.....	130,722	114,722	8,000	.....	4,000	4,000
2	Harrisburg M. & Coal Co	Harrisburg....	97,000	67,000	15,000	.....	7,000	8,000
3	Clifton Coal Co.....	.. do	82,000	59,800	9,000	.....	5,800	7,400
4	Saline County Coal Co...	.. do	24,215	14,530	4,843	.....	2,421	2,421
5	New Coal Co.....	.. do	8,007	8,007	.....	.....	.....	.....
6	Gallatia Coal Co.....	Gallatia.....	6,825	6,825	.....	.....	.....	.....
Totals			348,769	270,884	36,843	.....	19,221	21,821
LOCAL MINES.								
1	C. M. Leeper.....	Eldorado.....	2,693	2,693	.....	.....	.....	.....
2	Loyd & Evans.....	.. do	1,500	1,500	.....	.....	.....	.....
3	H. P. Sittig	Stonefort.....	200	200	.....	.....	.....	.....
4	Hudgens & Reeder.....	.. do	200	200	.....	.....	.....	.....
5	Andy Cogdill	.. do	100	100	.....	.....	.....	.....
6	Maggie M. Sisk.....	Cottage Grove	50	50	.....	.....	.....	.....
7	R. M. Barry	.. do	100	100	.....	.....	.....	.....
8	Gill Shelton.....	.. do	250	250	.....	.....	.....	.....
9	James Yates.....	.. do	250	250	.....	.....	.....	.....
10	John Ward.....	Mitchellville..	60	60	.....	.....	.....	.....
Totals			5,403	5,403	.....	.....	.....	.....
Totals—16 mines..			354,172	276,287	36,843	.....	19,221	21,821

Mines in 1902, 16.

New mines, 2.

Abandoned mines, 2.

Mines in 1903, 16.

Saline County--Seventh District--Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$107,578	112	31	143	130,722	.....	.....	210	130,722	\$0 51	3,200	.....	1
85,500	80	30	110	90,000	5,000	2,000	237	97,000	51	3,700	.....	2
73,016	47	21	68	80,200	.....	1,800	203	82,000	51	2,800	.....	3
25,428	40	19	59	23,000	700	515	200	24,215	51	1,000	.....	4
8,007	15	12	27	7,769	.....	238	92	8,007	51	300	1	5
5,801	10	7	17	2,960	3,600	265	130	6,825	51	270	.....	6
\$305,328	304	120	424	334,651	9,538	4,580	163	348,769	\$0 51	11,270	1	3
\$3,366	4	3	7	.....	2,693	.....	200	2,693	\$0 50	135	.....	1
1,500	6	3	9	.....	1,600	.....	.....	1,500	50	75	.....	2
200	2	.....	2	.....	200	.....	.....	200	50	6	.....	3
200	2	.....	2	.....	200	.....	.....	200	.....	6	.....	4
100	2	.....	2	.....	100	.....	.....	100	.....	4	.....	5
50	1	.....	1	.....	50	.....	.....	50	.....	3	.....	6
100	1	1	2	.....	100	.....	.....	100	.....	4	.....	7
250	2	.....	2	.....	250	.....	.....	250	.....	10	.....	8
250	2	.....	2	.....	250	.....	.....	250	.....	10	.....	9
75	2	.....	2	.....	60	.....	.....	60	.....	2	.....	10
\$6,091	24	7	31	.....	5,403	.....	200	5,403	\$0 50	254	.....	.....
\$311,419	328	127	455	334,651	14,941	4,580	.....	354,172	.....	11,524	1	3

Wabash County—Seventh District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	A. G. Keen.....	Mt. Carmel...	1,500	1,200	.....	.....	.....	.....
2	Couch, Adams & Co.....	do	2,600	2,600	.....	.....	.....	.....
3	William Batson	Keensburg ...	1,000	1,000	.....	.....	.....	.....
Totals—3 mines.....			4,800	4,800	.....	.....	.....	.....

Mines in 1902, 3.

Mines in 1903, 3.

Washington County—Seventh District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINE.								
1	Adam Kuhn	DuBois	39,000	10,000	25,000	.....	.....	4,000
LOCAL MINES.								
1	Hugh Murray.....	Nashville.....	17,356	2,133	11,603	.....	1,431	2,189
2	Okawville Coal Co	Okawville	1,600	1,600	.....	.....	.....	.....
Totals			18,956	3,733	11,603	.....	1,431	2,189
Totals—3 mines...			57,956	13,733	36,603	.....	1,431	6,189

Mines in 1902, 3.

Mines in 1903, 3.

Wabash County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for ship- ment and sup- plied to locomo- tives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine					Number of fatal.	Number of non- fatal.	
\$1,320	3	12	5	.....	1,200	.....	.....	1,200	.....	45	.....	.....	1
2,860	4	4	5	.....	2,600	.....	.....	2,600	.....	96	.....	.....	12
1,100	12	3	5	.....	1,000	.....	.....	1,000	.....	40	.....	.....	3
\$5,280	9	9	18	.....	4,800	.....	.....	4,800	.....	181	.....	.....	

Washington County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for ship- ment and sup- plied to locomo- tives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non- fatal.	
\$36,000	45	17	62	35,000	2,000	2,000	240	39,000	\$0 51	1,500	.....	.....	1
\$17,961	18	8	26	.....	16,000	1,356	240	17,356	\$0 51	495	1	.....	1
1,600	3	1	4	.....	1,600	.....	.....	1,600	51	46	.....	.....	2
\$19,561	21	9	30	.....	17,600	1,356	240	18,956	\$0 51	541	1	.....	
\$55,561	66	26	92	35,000	19,600	3,356	.....	57,956	.....	2,041	1	.....	

Williamson County—Seventh District—1903.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Mine-run.	Lump.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Big Muddy C. & I. Co., 7.	Herrin	440,298	119,432	98,769	28,155	180,887	13,055
2	Chl. & Cartersville C. Co.	.. do	277,898	70,176	54,588	31,045	99,491	22,598
3	Sunny Side Coal Co.	.. do	266,304	2,130	51,129	45,844	136,098	31,103
4	St. L. & Big Muddy C. Co.	Dewmaine	213,040	22,804	45,952	34,324	84,470	25,490
5	So. Ill. C. M. & W. Co., 2.	Marion	188,511	3,009	42,694	45,049	31,241	66,528
6	So. Ill. C. M. & W. Co., 3.	.. do	186,603	755	36,248	52,019	28,738	68,843
7	New Virginia Coal Co.	Lake Creek	175,050	30,825	40,018	21,617	22,073	60,504
8	Cartersville Coal Co., Burr	Cartersville	131,057	4,063	18,872	44,822	16,120	47,180
9	C. & B. M. Coal & Coke Co.	Marion	127,693	668	28,904	30,693	12,774	51,654
10	Williamson County C. Co.	Lake Creek	113,325	76,435	7,962	9,240	1,871	17,817
11	New Ohio Wash C. Co., 1.	Cartersville	107,683	.....	9,491	24,252	.....	73,940
12	New Ohio Wash C. Co., 2.	.. do	87,104	.....	7,839	20,083	.....	59,232
13	Chicago-Herrin Coal Co.	Herrin	71,144	1,848	13,533	17,246	5,758	32,759
14	Robert Dick Coal Co.	Cartersville	61,236	16,152	11,271	11,271	.....	22,542
15	So. Ill. C. & M. W. Co., 4.	Marion	58,860	3,082	9,268	15,594	9,095	21,821
16	Cartersville Coal Co., 2.	Cartersville	55,600	7,600	12,000	12,000	.....	24,000
17	J. C. & B. M. C. M. Co.	Lake Creek	48,353	6,394	9,895	8,468	7,855	15,911
18	Marion Coal Co.	Marion	48,000	18,000	10,000	10,000	6,500	3,500
19	Cartersville Dist. Coal Co.	.. do	28,725	28,725	.....	.....	.....	.....
20	Donnelly-Koenecke C. Co.	Cartersville	8,259	8,259	.....	.....	.....	.....
21	Cartersville & B. M. C. Co.	.. do	3,250	3,250	.....	.....	.....	.....
Totals			2,697,993	423,620	508,423	461,672	642,601	661,477
LOCAL MINES.								
1	Richard Hampton	Cartersville...	2,443	463	491	739	415	335
2	John Reed	Herrin	2,000	2,000	.....	.....	.....	.....
3	John A. Young	Cartersville...	4,873	4,873	.....	.....	.....	.....
4	W. P. Allen	Marion	1,800	1,800	.....	.....	.....	.....
5	Ensmunger & Rentfro	Crab Orchard	1,258	1,258	.....	.....	.....	.....
6	W. S. Tarpley	.. do	200	200	.....	.....	.....	.....
7	Williford & Downs	.. do	300	300	.....	.....	.....	.....
8	Chas. Dunsford	.. do	300	300	.....	.....	.....	.....
9	T. M. Motsinger	.. do	400	400	.....	.....	.....	.....
10	J. Pritchett	Hudgens	280	200	.....	.....	.....	.....
Totals			13,774	11,794	491	739	415	335
Totals—31 mines ..			2,711,767	435,414	508,914	462,411	643,216	661,812

Mines in 1902, 29.

New mines, 2.

Mines in 1903, 31.

Williamson County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employés	Total.	Tons loaded on cars for shipment and supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal	Number of non-fatal.	
\$426,696	242	96	338	426,399	2,763	11,136	257	440,298	\$0 48	12,758	2	3	1
274,457	170	86	256	266,472	1,490	9,936	227	139,537	48	6,449	1	3	2
276,744	180	88	268	243,818	965	21,521	222	266,304	48	7,922	1	3	3
218,063	195	129	324	201,614	1,310	10,116	233	213,040	48	8,475	3	1	4
172,416	86	62	148	185,361	300	2,850	194	88,795	48	2,634	1	3	5
169,036	74	45	122	181,163	500	4,940	189	4,203	48	2,231	.....	2	6
131,357	75	29	104	170,037	.....	5,013	300	175,050	48	7,100	.....	.....	7
105,003	87	60	147	127,257	.....	3,800	248	131,067	48	3,300	.....	.....	8
127,700	105	62	167	126,368	.....	1,325	215	61,580	48	2,971	1	.....	9
91,407	131	71	202	106,110	2,540	4,675	237	113,325	48	3,516	3	.....	10
72,998	85	38	133	100,103	1,160	6,420	210	107,683	48	2,451	.....	.....	11
59,926	90	35	125	80,204	.....	6,900	176	87,104	48	2,885	.....	.....	12
57,267	55	33	88	68,878	650	1,616	150	71,144	48	2,166	.....	1	13
60,109	60	20	80	60,141	.....	1,095	265	61,236	48	1,560	.....	.....	14
52,726	30	25	55	57,160	200	1,500	187	23,715	48	810	.....	.....	15
48,840	46	29	75	55,000	.....	600	210	55,600	48	1,680	.....	.....	16
40,290	35	59	94	45,553	300	2,500	200	32,278	48	1,375	.....	1	18
51,300	42	23	65	47,600	.....	500	205	48,000	48	1,120	.....	.....	17
34,470	30	11	41	27,597	300	828	120	975	48	375	.....	.....	19
8,259	20	15	35	7,689	120	450	158	8,259	48	259	.....	.....	20
3,250	8	3	11	3,100	.....	150	50	3,250	48	110	.....	.....	21
\$2,482,344	1,846	1,022	2,868	2,587,524	12,598	97,871	210	2,132,433	\$0 48	71,631	12	17	
\$2,835	2	4	6	.....	2,443	.....	312	2,443	\$0 48	60	.....	.....	1
2,000	4	3	7	.....	2,000	.....	90	2,000	50	100	.....	.....	2
6,579	3	4	7	.....	4,873	.....	200	4,873	50	125	.....	.....	3
2,890	.....	4	4	.....	1,800	.....	200	1,800	50	12	.....	.....	4
1,258	3	.....	3	.....	1,258	.....	103	1,258	50	36	.....	.....	5
200	1	1	2	.....	200	.....	45	200	48	18	.....	.....	6
300	2	.....	2	.....	300	.....	60	300	.....	20	.....	.....	7
300	2	.....	2	.....	300	.....	60	300	.....	20	.....	.....	8
400	2	1	3	.....	400	.....	120	400	.....	12	.....	.....	9
3,250	2	1	3	.....	200	.....	60	200	.....	12	.....	.....	10
\$17,002	21	18	39	.....	13,774	.....	125	13,774	\$0 495	415	.....	.....	
\$2,499,346	1,867	1,040	2,907	2,587,524	26,372	97,871	.....	2,146,207	.....	72,046	12	17	

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Gallatin	2	36,550	365	22,550	.....	2,665	8,502	2,468	\$ 34,162
Jackson	8	959,264	120,467	462,098	21,184	50,934	270,582	33,999	1,010,233
Jefferson	1	15,000	8,000	4,000	.....	1,500	1,500	.....	14,875
Perry	20	1,027,031	477,655	332,562	33,112	45,757	118,683	19,262	970,960
Randolph.....	11	469,235	181,912	215,473	.....	2,714	50,194	18,942	390,741
Saline	6	348,769	270,884	38,843	.....	19,221	12,021	9,800	305,328
Washington..	1	39,000	10,000	25,000	.....	.....	4,000	.....	36,000
Williamson ..	21	2,697,993	423,620	508,423	461,672	642,801	555,489	105,988	2,482,344
Totals and averages	70	5,592,842	1,492,903	1,606,949	515,968	765,692	1,020,971	190,459	\$5,244,643

Seventh District—1903—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
61	36	97	31,819	1,646	1,103	1,982	163	36,550	.....	\$0.51	.....	1,233	..	1
784	518	1,302	836,110	55,454	4,371	63,329	199	392,893	566,391	.51	\$0.433	18,108	3	16
24	7	31	1,000	5,000	8,600	500	165	15,000	.....	.57	.....	400	..	..
1,139	595	1,734	860,477	114,433	29,927	22,189	196	974,831	52,200	.526	.48	30,281	7	19
402	170	572	430,426	9,600	7,092	22,117	197	469,235	.....	.55	.....	13,158	..	..
304	120	424	318,451	16,200	9,538	4,580	196	348,769	.....	.51	.....	11,270	1	3
45	17	62	35,000	.....	2,000	2,000	240	39,000	.....	.51	.....	1,500	..	..
1,846	1,022	2,868	2,534,817	2,707	12,598	97,871	210	2,132,433	565,560	.48	.41	71,631	12	17
4,605	2,435	7,090	5,098,100	205,045	75,129	214,568	201	4,408,701	1,184,141	\$0.504	\$0.43	147,591	23	56

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Gallatin	7	8,850	8,850	.....	.....	.....	.....	.....	\$ 9,850
Hamilton	2	700	700	.....	.....	.....	.....	.....	1,060
Jackson	15	13,020	11,155	1,865	.....	.....	.....	.....	15,210
Jefferson	1	100	100	.....	.....	.....	.....	.....	150
Johnson	5	2,545	2,545	.....	.....	.....	.....	.....	2,545
Perry	6	4,720	4,400	320	.....	.....	.....	.....	6,180
Randolph	3	8,890	8,890	.....	.....	.....	.....	.....	11,442
Saline	10	5,403	5,403	.....	.....	.....	.....	.....	6,091
Wabash	3	4,800	4,800	.....	.....	.....	.....	.....	5,280
Washington..	2	18,956	3,733	11,603	.....	1,431	.....	2,189	19,561
Williamson ..	10	13,774	11,794	491	739	415	69	266	17,002
Totals and averages	64	81,758	62,370	14,279	739	1,846	69	2,455	\$94,361
Totals district —all mines..	134	5,674,600	1,555,273	1,621,228	516,707	767,428	1,021,040	192,914	\$5,339,004

Seventh District—1903—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES, PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties.	Number non-fatal cas- ties.
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
25	7	32	.....	.....	8,850	.....	160	8,850	.....	\$0.51	.....	367	..	..
....	6	6	.....	.....	700	.....	100	700	.....	†	.....	10	..	..
36	17	53	.....	.....	12,745	275	119	12,620	400	*.61	\$0.44	508	..	..
....	2	2	.....	.....	100	.....	†	100	.....	†	.....	2	..	..
12	....	12	.....	.....	2,545	.....	†	2,545	.....	†	.....	85	..	..
21	8	29	.....	.....	4,720	.....	70	4,720	.....	.532	.....	183	..	..
8	6	14	.....	.....	8,890	.....	165	8,890	.....	.56	.....	261	..	..
24	7	31	.....	.....	5,403	.....	200	5,403	.....	.50	.....	254	..	..
9	9	18	.....	.....	4,800	.....	†	4,800	.....	†	.....	181	..	..
21	9	30	.....	.....	17,600	1,356	240	18,956	.....	.51	.....	541	1	..
21	18	39	.....	.....	13,774	.....	187	13,774	.....	.495	.....	415	..	..
<u>177</u>	<u>89</u>	<u>266</u>	<u>.....</u>	<u>.....</u>	<u>80,127</u>	<u>1,631</u>	<u>148</u>	<u>81,358</u>	<u>400</u>	<u>\$0.53</u>	<u>\$0.44</u>	<u>2,810</u>	<u>1</u>	<u>..</u>
4,782	2,574	7,356	5,098,100	205,045	155,256	216,199	.....	4,490,059	1,184,541	.....	.....	150,391	24	56

* 4,406 tons mined by day.

† Price paid for mining not given.

‡ Average number of days not given.

APPENDIX

REGISTER OF CERTIFICATED—
MINE MANAGERS.
HOISTING ENGINEERS.
MINE EXAMINERS.

AGREEMENT AS TO MINING PRICES AND CONDITIONS
IN ILLINOIS, APRIL 1, 1904 TO MARCH 31, 1906.

Illinois Free Employment Offices
FIFTH ANNUAL REPORT.

MINE MANAGERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE—This list includes all the mine managers to whom certificates have been issued prior to Jan. 1, 1904.

The names which are printed in *italic* are those who hold both certificates of service and subsequent certificates of competency acquired through examination.

The names which are followed by the abbreviation "ex." are those who have exchanged certificates of service for those of competency without examination, under the provisions of the amendment of 1895, names followed by the letter "d" are deceased.

The postoffice addresses here given, and in all the lists following, are those recorded at the time the certificates were issued, and in many cases are not the present addresses of the certificate holders.

Name.	Postoffice.	Name.	Postoffice.
<i>Adams, Charles T.</i>	Rosboro.....	Barratt, John C.....	DuQuoin.....
Adams, J. M.....	Wanlock.....	Barron, James, ex.....	Cantrall.....
Alnsworth, Samuel.....	Taylorville.....	Barrowman, James.....	Braidwood.....
Alnsworth, Samuel, Jr.....	Taylorville.....	Bartlett, Thomas, ex.....	Cuba.....
Alnsworth, Thomas.....	Taylorville.....	<i>Bashong, Andrew</i>	Danville.....
Altken, James.....	Streator.....	<i>Barwell, John</i>	Marissa.....
Alexander, J.....	Collinsville.....	<i>Bates, W. H.</i>	Winchester.....
Allen, David T.....	LaSalle.....	Bates, R. D.....	Winchester.....
Anderson, W. C.....	Elmwood.....	Baumer, Fred.....	Marquette.....
Anderson, James.....	Ladd.....	Bauer, Valentine.....	Clyde.....
Anderson, James C.....	Streator.....	Baxter, William.....	Ladd.....
<i>Andreas, Aug.</i>	Belleville.....	Beaghan, Peter.....	Cantrall.....
<i>Angel, Hiram</i>	Belleville.....	<i>Beattie, Richard</i>	Murphysboro.....
Angell, Charles.....	Belleville.....	Beattie, John.....	Danville.....
Applett, William R.....	Springfield.....	Beaty, James.....	Mascoutah.....
Appleby, John E.....	Peoria.....	Beatty, James H.....	Mascoutah.....
Argyle, Joseph.....	Coal City.....	Becker, Henry.....	Peoria.....
Atkinson, Edward.....	Streator.....	Becker, Peter.....	Petersburg.....
Atkinson, J. G.....	Pekin.....	Becker, F. W.....	Pinckneyville.....
Atkinson, William.....	Murphysboro.....	Beese, John.....	Birkner.....
Atkinson, William.....	Graceville.....	Beharrelle, Fred.....	Orchard Mines.....
Armstrong, Thomas J.....	Spring Valley.....	Bell, Richard.....	Gillespie.....
Armstrong, William C.....	Marion.....	Bell, William.....	Streator.....
Archer, John.....	Barclay.....	Belger, John.....	Nilwood.....
Ash, T. G.....	Girard.....	Beltz, Andrew.....	Harrisburg.....
Aston, Huber, ex.....	Fairmount.....	Bengston, John A., ex.....	Galva.....
Archibald, David.....	Freeburg.....	Bennett, James.....	Odin.....
Ax, John.....	Edwardsville.....	Bennett, John.....	Centralla.....
<i>Axford, Thomas</i>	Petersburg.....	Berkstresser, W. A.....	DuQuoin.....
		Berry, Jessiar.....	Greenview.....
Baker, Gustav.....	Streator.....	Betts, Joseph E.....	Belleville.....
Back, Thomas.....	Mapleton.....	<i>Betz, Charles C</i>	DuQuoin.....
Bailey, William.....	Athens.....	Bevard, John J.....	Kinmundy.....
Bailey, Joseph.....	DuQuoin.....	Bevard, F. C.....	Carterville.....
Ball, Edward.....	Bartonville.....	Beveridge, David.....	Sorento.....
Barlow, Henry.....	Coffeen.....	Beggs, Samuel, ex.....	Clark City.....
Barnes, James.....	Braidwood.....	Biebel, Henry, ex.....	Rentchler.....
Barnett, Oliver.....	Bryant.....	Biggins, James.....	Sorento.....
		Bingham, Robert.....	O'Fallon.....

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Bird, George W.	Coffeen	Clark, Quinton.	Braidwood
Birtin, Henry.	Pana.	Clark, Thomas.	Decatur
Birtley, William P.	Springfield	Clark, John.	Decatur
Blair, Gus.	Murphysboro.	Clayton, Frank.	Troy
Blair, Herbert.	Divernon	Clifford, Robert.	Braidwood
Blaukenship, Wm. F.	East Peoria.	Clifford, Michael J.	Kewanee
<i>Blenkinsopp, Thos. N.</i>	Cable.	Coar, Firman	Worden
Boettcher, F. J.	New Athens.	<i>Collier, Frank J.</i>	Bartonville.
Boston, G. W.	Murphysboro	Collins, Richard J., ex.	O'Fallon
Boston James.	DuQuoin.	Combs, James W.	Kewanee
Bottomly, Edward.	Oglesby.	<i>Comford, L.</i>	Cantrall
Bottomly, John.	Oglesby.	Condis, Malcom	Spring Valley
Bowers, Robert.	Wenona.	Conlty, Patrick	DuQuoin
Bowie, James.	Braidwood.	<i>Cooper, Charles.</i>	Nilwood
Bowie, George.	Braidwood.	Cook, Robinson.	Riverton
Boyer, J. A.	Fairmount.	Condon, Charles H.	Hanna City.
<i>Bracken, James A.</i>	Greenview	Connors, William	Toluca
Bradenberger, F.	Belleville	Connell, Nichol E.	Peoria
Brennan, John I.	Viriden.	Conrad, William.	Springfield
Brennan, Patrick.	Toluca	Costello, Henry.	Pana
Bressmen, William.	Springfield	<i>Castor, George.</i>	Grape Creek.
Brockhouse, Samuel.	Caseyville.	Corrigan, James.	Marseilles
Brigham, William.	Marissa	Courtney, James D.	Westville.
Brooks, Peter	Taylorville	Cowell, William.	Assumption
Brown, John.	Glen Carbon.	Cox, Eugene.	Centralla.
Brown, Thomas Manhall.	Pinckneyville	Craine, John E.	Murphysboro.
Brown, William J.	Coal City	Craine, B. S.	Murphysboro.
Brown, William F.	Pontiac.	Crampton, Edward.	Murphysboro.
Brown, James B.	Murphysboro	Crauch, J. E.	Viriden.
Brown, F. M.	Farmington	Cranksaw, Thomas.	Decatur
Browning, J. M.	DuQuoin.	Cranksaw, William.	Decatur
Bruckner, Emil.	Staunton.	Crighton, Robert	Chenoa.
Bruegeman, George.	Belleville.	Crowder, Richard A.	Moccasin
Bulmer, John, ex.	St. John.	Cruikshanks, John.	Farmington
Bulmer, Benjamin.	Muddy Valley.	Cruikshanks, Walter E.	E Peoria.
Bundy, John.	Streator.	Cruikshanks, William.	Middle Grove.
Burdett, J. P.	Colchester.	Cryer, James T.	Spring Valley
Butzke, Frank.	Springfield.	Cumming, Ambrose B.	Sparland.
Burke, George, ex.	Peru	Cumming, James P.	Sparland
Burkhardt, John B.	Mt. Olive.	Cumming, John P.	Braceville
		Cumming, Thomas S.	Gardner
		Cumming, D. H.	Gardner
		Cunningham, Thomas.	Girard
		Cunningham, Cormick	Springfield
		Currie, Adam.	LaSalle
Callear, Issac.	Pottstown		
Cameron, David J.	Pana.	Daenzer, Anton	Belleville.
Cameron, D. S., ex.	Sorento	Dale, Henry.	Muphsyboro
Cambell, William.	Sandoval.	<i>Dale, John.</i>	Fredonia
Cambell, Frank J.	Athens.	Daniels, James.	Belleville.
Cambell, Thos. M., (d.)	Pinckneyville.	Daniels, Samuel.	Belleville.
Cambell, H. J.	Assumption	Daniels, Alexander.	Henry
Cambell R. W.	Decatur	Damey, William	Lincoln
Canfield, R. A.	Madisonville, Ky.	<i>Davis, Calib.</i>	Collinsville
Carroll, A. W.	Gillespie	Davis, J. H.	Cuba
Carlson, Andrew	Colfax	Davis, Thomas.	Dunfermline.
Carson, J. H.	O'Fallon	Davis, P. J.	Percy
Carson, Chas. W.	Wolcott.	Davis, William.	Litchfield.
Carter, Charles.	Birkner	Davis, William H.	Streator
Carter, George.	Birkner	<i>Davidson, M.</i>	DuQuoin
Cartlidge, Oscar.	Gillespie	Davison, James.	Soarta
Carroll, John, (d)	O'Fallon.	Davenport, John.	Harrisburg.
Carylon, J.	Oglesby.	Dawkins, Wm. E.	Belleville.
<i>Casey, James F.</i>	Shelbystown	Dawson, Daniel.	Campbell Hill.
Catheart, Matthew, ex.	Tilden	Dawson, Richard.	Athens
Center, George H.	Halldayboro	<i>Deans, Henry.</i>	Percy.
Chalderton, John.	Lenz Station.	Deaton, Abraham L.	Middletown.
<i>Chambers, William.</i>	Spaulding.	Deeney, George H.	Farmington
<i>Charlton, George R.</i>	Greenview	Denny, John J.	Springfield
Cherry, John T.	Seatonville.	Denny, Lawrence	Springfield
Cherry, James.	Seatonville	Devlin, Henry.	Toluca.
Cherry, W. S.	Streator	Devlin, Thomas H.	Spring Valley
Chere, George.	Pleasant Plains.	Diamond, Peter.	DuQuoin
Checkin, David.	Reed City.	Dick, Robert.	DuQuoin
Chivers, Joseph	Braceville.	Dickenson, James E.	Belleville.
<i>Chonolly, Terrance J.</i>	Assumption.	Dickerson, J. L.	Danville
<i>Christie, David</i>	Murphysboro.		
Church, Henry M.	Marissa		
Clark, Martin.	Decatur		
<i>Clark, Edward.</i>	Decatur		

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Dodd, William, (d).....	Cable.....	Frew, Archibald.....	Moweaqua.....
Dodge, H. N.....	St. David.....	Freer, James.....	Peoria.....
Donahoe, James.....	Cartersville.....	Friska, Jan.....	Edwardsville.....
Donaldson, William.....	Kangley.....	Fritz, William, ex.....	Breese.....
Donaldson, James W.....	Peoria.....		
Donally, James.....	Cartersville.....		
Dooly, Harry.....	Springfield.....	Gaffigan, Michael.....	Petersburg.....
Dooner, P. J.....	Glennburn.....	Gaffigan, Patrick J.....	Springfield.....
Donnelly, P. H.....	Chicago.....	Gailorah, George.....	Tamaroa.....
Donnelly, Henry.....	Braidwood.....	Garrity, John.....	Riverton.....
Doughty, James.....	Danville.....	Gaul, Henry J.....	Ridge Prairie.....
Dougherty, Daniel.....	Virginia.....	Gavin, Barney.....	Springfield.....
Dowell, Thomas.....	Muddy Valley.....	Geller, Ernest.....	Golden Eagle.....
Downlog, Timothy.....	Briar Bluff.....	Gell, Philip.....	Gilchrist.....
Drake, George.....	Streator.....	Gibson, M. hael.....	Spring Valley.....
Ducas, J.....	Grape Creek.....	Gilbert, Edward.....	Niantic.....
Duddy, John.....	Pana.....	Gile, William.....	Gillespie.....
Dudek, John.....	Kinnmundy.....	Gilchrist, John W.....	Gilchrist.....
Duffner, J. W.....	Belleville.....	Glass, William H.....	Pana.....
Duncan, Charles.....	Streator.....	Gluck, Wes. C.....	Spring Valley.....
Dunham, John F.....	Springfield.....	Goalby, John F.....	Gillespie.....
Dunlop, John.....	Odin.....	Goddard, Benjamin B.....	DuQuoin.....
Durkin, Michael.....	Sunfield.....	Goddard, William.....	do.....
Earl, William.....	Braidwood.....	Golden, George.....	Cuba.....
Eccles, John.....	Salem.....	Golden, William D.....	Springfield.....
Edwards, S. E.....	Centralia.....	Gorsuch, R. H.....	do.....
Edwards, Thomas.....	Springfield.....	Goodall, George.....	Assumption.....
Edmunds, Morgan.....	Mt. Olive.....	Gordon, Ephriam G.....	Wanlock.....
Ehret, Frank A.....	Wesley.....	Grabuck, Emil T.....	Staunton.....
Eiler, William.....	Edwardsville.....	Grabuck, R. H.....	do.....
Emery, Charles.....	Breese.....	Graham, Hiram.....	Virden.....
Emery, Joseph.....	Belleville.....	Graham, John W.....	Dunfermline.....
English, Thomas.....	Streator.....	Graham, Louis A.....	Jacksonville.....
Erwin, William.....	Belleville.....	Graham, William.....	Virden.....
Essex, George W.....	Soperville.....	Graham, David L.....	Springfield.....
Evans, George.....	Lincoln.....	Graham, John.....	Narion.....
Evans, Harry M.....	Harrisburg.....	Grant, Peter, Jr.....	Peoria.....
Evans, John Nine, ex.....	LaSalle.....	Gratz, Gottlieb.....	Hornshy.....
Evans, John O., ex.....	O'Fallon.....	Granlick, Jul. M.....	Belleville.....
Evans, John.....	Bissell.....	Gray, Thomas R.....	Springfield.....
Evans, Albert E.....	Streator.....	Gray, Peter.....	Pana.....
Evans, William.....	Norris.....	Green, Arthur.....	Braceville.....
Evans, William H.....	Harrisburg.....	Green, W. H.....	Belleville.....
Evans, John O., Jr.....	Caseyville.....	Green, Joseph, ex.....	Marissa.....
		Green, John W.....	Springfield.....
Fagan, Michael.....	Spring Valley.....	Green, John.....	Belleville.....
Fagan, Patrick T.....	Decatur.....	Green, Robert.....	Springfield.....
Fairbairn, Thomas.....	Streator.....	Greenwood, John R.....	Edinburg.....
Fairlie, James.....	Gilchrist.....	Greenwood, Robert.....	DuQuoin.....
Falcetti, John B.....	Glen Carbon.....	Greive, Peter.....	Collinsville.....
Farnsworth, Lawrence, ex.....	Barclay.....	Greive, Peter, Jr.....	do.....
Farnsworth, Thomas J.....	Spaulding.....	Griffin, John.....	Cantrall.....
Felker, John.....	Danville.....	Grinrod, William E.....	Belleville.....
Fellows, Edward.....	Streator.....	Groom, John.....	do.....
Ferguson, John.....	Reed City.....	Grosspich, August.....	do.....
Ferguson, Walter.....	Braidwood.....	Guest, Joseph, ex.....	do.....
Ferguson, William.....	DuQuoin.....	Guest, John.....	do.....
Ficher, A. W.....	Worden.....	Guiney, James T.....	Braidwood.....
Finckro, M. M.....	Pana.....		
Flavel, Jonah.....	DuQuoin.....	Haddick, John, Jr.....	Cable.....
Fleming, James.....	Decatur.....	Haddick, William, ex.....	Sherrard.....
Fleming, Jacob.....	Kewanee.....	Haddow, Thomas.....	Pana.....
Fletcher, John.....	LaSalle.....	Hagerton, Joseph.....	St. John.....
Fletcher, John J.....	Collinsville.....	Haile, George.....	Ladd.....
Fletcher, T. C.....	do.....	Hall, John.....	Sherrard.....
Fletcher, William.....	do.....	Hallemeyer, Julius, ex.....	Golden Eagle.....
Foley, George, ex.....	LaSalle.....	Hall, Matthew.....	Braceville.....
Foley, W. E.....	Mapl-ton.....	Hainsel, Daniel.....	Lenzburg.....
Forsythe, Peter.....	Centralia.....	Halbert, J. A.....	Westville.....
Forsythe, Robert.....	Murphysboro.....	Hamilton, Thomas.....	Nashville.....
Foster, William.....	Lincoln.....	Handwright, James.....	Virden.....
Foster, James.....	Marion.....	Hanley, John H.....	Springfield.....
Fohl, Bernard, ex.....	Belleville.....	Hannah, Thomas.....	Iles Junction.....
Francis, T. L.....	Braidwood.....	Hardin, Joseph H.....	Vandercook.....
Fraze, William H.....	Danville.....	Harding, Enos.....	Birkner.....
Franken, Benard.....	Lincoln.....		

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Harding, Thomas F.	Danville	James, Johan	Grape Creek
Harding, William	Lebanon	Jaques, William	Belleville
Hardy, Rufus E.	Murphysboro	Jaques, Richard	do
Harkes, William	Coal City	Jefford, R. H.	Kingston Mines
Harper, William J.	Springfield	Jefford, Thomas H., ex.	Kingston
Harper, John	Colchester	Jeffrey, Peter	Carterville
Harrison, <i>Earnest</i>	Streator	Jenkins, Alexander	Dunfermline
Harrison, John	Virdeon	Jenkins, David	South Danville
Harrison, John, ex.	Odin	Jenkins, Thomas C.	Murphysboro
Harrison, William	Murphysboro	Jenkins, J. A.	Dunfermline
Harrison, James	Athens	Jenkins, John L.	Fairbury
Harrop, James T.	Seatonville	<i>Jirrimire, William M.</i>	DuQuoin
Hartman, Frank, ex.	Murphysboro	Jerrell, John W.	Equality
Hartman, Wm	Freeburg	John, Evan D.	Spaulding
Haselton, F. D.	Spaulding	Johnson, William	Danville
Haskins, George H.	Grape Creek	Johnston, Cochran	Spring Valley
Hauck, Fred	Glen Carbon	Johnston, Samuel	Oglesby
Hawkins, Sidney	Belleville	Johnston, William	Marion
Heyes, Henry	Streator	Jolly, Thomas J.	Collinsville
Hebenstreit, Bruno	Staunton	Jones, Charles	Marissa
Hebenstreit, E. W.	do	<i>Jones, David</i>	do
Hebenstreit, T. G.	do	Jones, D. L.	Taylorville
Hebenstreit, J. P.	do	Jones, John T.	Lebanon
Heiple, Walter	DeSoto	Jones, Edward	Oglesby
Heltrich, Henry	Kentchler	Jones, Harry D.	Riverton
Henderson, Edward	Springfield	Jones, John H.	DuQuoin
Henderson, Joseph	Coal City	Jones, Logan	Marissa
Henderson, Thomas	Marissa	Jones, Robt. R.	Oglesby
Henley, J. H.	New Athens	Jones, T. L.	Ladd
Henley, Richard	Niantic	Jones, William	Marissa
Heppard, George	Tilden	Jones, William E.	Sheffield
Henry, Frederick	Kewanee	Jones, William E.	Wesley City
Henry, John T.	Pontiac	Jones, William M.	Lamaroa
Henry, Philip	Kewanee	Jordan, Robert (d)	Streator
Heriot, James	Spring Valley		
Hetherington, Benj. M.	LaSalle		
Hibberd, George	Peoria	Kahle, Joseph	Coulterville
Hickey, John	Springfield	Kane, Charles H.	Dunfermline
Hicks, Rd. J.	Sherrard	Kaney, John	Centralia
Higbee, A. W.	Wyoming	Kay, John	Pawnee
Higbee, James	do	Kay, James	Sherrard
Hill, Marshall	Carterville	Karral, Charles	Westville
Hillary, Edward	Colchester	Karrail, Edgar	Braceville
Hind, John A.	Moline	Keating, James A.	Streator
Hisson, Charles	Tilden	Keay, A. H. S.	Seatonville
Hoffman, John	DuQuoin	Keay, John	Springfield
Holmes, Thomas F.	Lincoln	Keefer, William	Danville
Horning, Charles A.	Harrisburg	Kell, Matthew	Dubois
Houston, Robert	Percy	Kell, Peter	do
Howell, Thomas H.	DuQuoin	Kelley, Bernard	Litchfield
Howell, D. J.	do	Kelley, D. J.	Carbon Hill
Howells, Eben (d)	Braceville	Kelly, Frank S.	Centralia
Howells, T. J.	DuQuoin	Kelley, Joseph G., ex.	Braidwood
<i>Hoye, James</i>	Braidwood	Kelley, Robert D.	Carbon Hill
Hoye, William	do	Kelley, J. D., Sr.	do
Hoddy, T. H.	Staunton	Kempper, Henry	Gillespie
Hudson, Thomas	Etherly	Kenney, Thomas	Springfield
Hughes, James	Braidwood	Kerr, John	Rushville
Hughes, John W.	do	Kidd, Alexander	Oglesby
Hughes, Hugh J.	Pana	Kidd, Andrew	do
Hughes, John J.	Litchfield	Kidd, W.	Ridge Prairie
Humme, J. A.	Hillary	<i>Kidd, Neugene</i>	do
Hummert, Henry	Breeze	Klenbush, David	Edwards Station
Humphreys, Edward	Murphysboro	Killingsworth, C.	Pinkneyville
Hunt, Albert J.	Edwards	Kincaid, Lee	Athens
Hutton, James, ex.	Tailula	Kirby, James	do
		Kirchner, Frank	Belleville
Iberson, James	Athens	Kirkwood, Martin	Birkner
Irwin, James M.	Pontiac	Klinginfus, Otto	Belleville
Issinghaus, William	Lebanon	Klinginfus, Emil	do
Izat, William	Litchfield	Kloever, Joseph	Pana
		Knapp, Charles	Seatonville
		Kules, Henry	Breeze
		Kortkamp, Wm.	Hillsboro
Jackson, George W.	Cable	<i>Kramer, Anthony F.</i>	Sato
Jacobson, Charles P.	St. David	Krantz, Jacob	Belleville
James, John	Mt. Olive	Kreppert, Wm.	Springfield

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Lacour, August	Bartonville	Moffat, Thos.	Percy
Laesser, Adolph	Belleville	Monaghan, Edward	Carbon Hill
Lauder, Alexander	Cartersville	Monaghan, Wm	Baldwood
Launoe, Frank	Worden	Moore, Alexander J.	Springfield
Large, James M.	Athens	Moore, Samuel	Chicago
Laws, J. M.	Cuba	Moreland, John, Jr.	Wenona
Lawson, John	Mt. Olive	Moran, Mark	Pekin
Lawson, Thomas	Lake Creek	Morin, Jeremiah	Danville
Ledford, Edward E.	Harrisburg	Morin, D. A.	do
Lee, Robert	Cable	Morgan, Geo.	Springfield
Lee, Robert	Sherrard	Morgan, Joseph	Streator
Lee, Shellcross G.	Canton	Morgan, Isaac B.	Ladd
Lee, William J.	Cable	Morris, G. W.	Lebanon
Lehwold, Herman A.	Springfield	Morris, J. H.	Nashville
Leming, W. C.	DuQuoin	Morris, James F.	Springfield
Lettsome, William	Carbon Hill	Morris, P. K.	Roanoke
Lettsome, Absalom	do	Morris, Wm. H.	Belleville
Lewis, Charles F.	Sparta	Morris, Joseph	Nashville
Lewis, James	Bryant	Morris, Robert	Marion
Lewis, William	Streator	Morrissey, Thomas	Lebanon
Lindley, Richard	Collinsville	Morrison, D. H.	Girard
Lindsay, John O.	DuQuoin	Morton, Andrew	Virginia
Linsky, P. J.	Braidwood	Morton, Robert	do
Lister, James H.	Peters Station	Moss, Thomas	Staunton
Little, Peter	Peoria	Mould, Thomas R.	O'Fallon
Little, Thomas	Summerfield	Murdock, John	Breeds
Lloyd, David J.	Edinburg	Muir, Hunter	Eberly
Lloyd, Rowland R.	Barclay	Munster, Anton	Westville
Lloyd, John E.	Danville	Murphy, Jerry	Chatham
Lloyd, Thomas	Rentchler	Murphy, John	Baldwood
Lloyd, Thomas	Wanlock	Murphy, Patrick	Springfield
Lord, John S.	Springfield	Murray, A.	Nashville
Lord, Henry L.	Virden	Murray, Hugh	Sparta
Love, John W.	Carbon Hill	Murray, J. H.	Galva
Lowery, Frank	Orchard Mines	Murrie, Archibald	Centralla
Lumaghi, Joseph	Collinsville	Mustard, Geo.	Norris
Lumaghi, Louis F.	do	McAllister, Hector	Streator
Macke, P. H.	Ledford	McAnarney, James	Girard
Malcolm, Wm. J.	Braceville	McCann, Patrick	Lincoln
Malloy, Henry E. (d.)	Decatur	McCleary, John	Cantrall
Mallon, Harry	Springfield	McCleary, Jas.	Kangley
Malone, Frank	Pinckneyville	McClintock, John	Murphysboro
Maltby, Wm. (d.)	Braidwood	McCrane, Jas.	Girard
Mann, Jacob	Mascoutah	McCordle, David	Oglesby
Marland, John, Jr.	Wenona	McCullough, W. F.	Mapleton
Marland, John, Sr., ex.	do	McDill, Jas.	Pana
Marsh, Jas.	Riverton	McDonald, Robert	Streator
Martin, Chas.	Middle Grove	McDonald, Wm	Baldwood
Martin, Geo.	Farmington	McFadden, Joseph	Danville
Mason, Eli	Edinburg	McFarland, Wm. A.	Edwardsville
Mason, Mark, Jr.	Sato	McGeachen, Robert	Sorento
Massee, John G.	Marissa	McGinnis, John	Springfield
Matthews, W. S.	Klondumy	McGunnigal, John	Murphysboro
Maxwell, Angus	Carlinsville	McGunnigal, James	Marissa
Maule, Alexander	Belleville	McGunnigal, Bernard	Spring Valley
Mays, John F.	Pana	McKean, Isaac	Coal City
McDill, Duncan	Oglesby	McKown, Frank	Decatur
McEhan, Patrick	Breeds	McKernan, Jas.	Collinsville
McEhan, Peter	Williamsville	McLear, Archibald	do
Michaels, Theodore	Belleville	McLaughlin, Wm.	Auburn
Millard, John	Peoria	McLaughlin, Wm.	Ava
Miller, Edward	Sorento	McLaughlin, John	Girard
Millburn, Thomas	Locesville	McLean, Robert	do
Middleton, Jas. L.	Sandoval	McManamon, Patrick F.	Spring Valley
Michaels, Lewis	Belleville	McMorrow, Michael	Farmington
Michaels, Otto L.	do	McMath, George	Cartersville
Miller, Alexander	Ridge Prairie	McMurtie, A. B.	Bryden
Miller, Hugh	Coal City	McWhinney, Andrew	Virden
Miller, Wm	Lenzburg	McMorrow, Thomas	Farmington
Miller, Geo. W.	Pawnee	McNabb, Wm.	Athens
Miller, John K.	Staunton		
Millen, John	Norris		
Millett, Thos.	Collinsville	Neal, Reese	Kangley
Millhouse, John G.	Spring Valley	Neal, Albert M.	Murphysboro
Mills, T. J.	Cable	Neal, Wm	do
Mitchell, T. J.	Pana	Needles, Thadeus	Glenburn
Moffat, R. E.	Percy	Neeson, Richard	Divernon

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Neil, Peter, ex	Bunker Hill	<i>Radford, William</i>	Cuba
Newcomb, H. C.	Pana	Radford, James	Springfield
Newman, Henry T.	Springfield	<i>Radford, William T.</i>	Bloomington
Newsam, John	Kingston	Kae, Robert	Braidwood
Newsam, Richard	Orchard Mines	Ramsey, Charles J.	Gillespie
Newsam, Richard, Jr.	Kingston Mines	<i>Randle, Jesse</i>	Birkner
Newsam, Thomas	do	Rarick, Phil. W.	Glen Carbon
Newsam, Thomas, Jr.	do	Rauth, John	Belleville
Nesbit, Charles, ex	Millstadt	Rasmussen, James E.	Mineral
Nevenner, John	Belleville	Rasbotten, Frank	Kingston
Nevill, George W.	DuQuoin	Reagan, Daniel	Muddy Valley
Nicholson, George A.	Cuba	Reavley, Robert	Riverton
<i>Nicholson, Wm.</i>	do	Redyard, John	Odin
Nixon, Robert	Virdeu	Reeb, Philip	Belleville
Noll, Peter	Belleville	Reed, W. M.	Girard
Nold, Fred	Freburg	Reed, Wm B.	Will-man
Nordeen, Peter	Galva	Reents, August	Kramm
Nordness, C. K.	Girard	Reese, Daniel	Danville
Notman, George	Streator	Reid, Andrew	Springfield
		Reid, Joseph	Marion
O'Beirne, John	Spring Valley	Reiley, Edward	Danville
O'Brien, John W.	Toluca	Reimann, John	Belleville
O'Brien, John J.	Marquette	Remulson, Henry	St. John
O'Brien, James	Belleville	<i>Reynolds, William</i>	East Peoria
O'Brine, Patrick J.	Spring Valley	Reynolds, John	Streator
O'Brine, Wm.	Pana	Rhodes, Jefferson	Pana
O'Connor, James	Spring Valley	Richards, John	Murphysboro
O'Connor, John	Braidwood	Richardson, Joseph	Litchfield
O'Connor, Patrick F.	Paisley	Richardson, Robert	Cartersville
O'Leary, John	Marquette	Ridgley, O. L.	Mt. Olive
Opie, Wm.	Sandoval	Ritchie, Alex., Sr.	Clinton
Owen, Wm.	Tallula	Ritchie, A. Jr.	Trenton
Owens, Robert	Marion	Rittmann, J. J.	Decatur
		Roberts, Benjamin D.	Streator
		Roberts, Hiram	Collinsville
		Roberts, John D., ex	Streator
		Roberts, Thomas D.	do
Parker, Albert	Collinsville	Robinson, Henry	Gardner
Passent, Wm. C.	Barclay	Robinson, John T.	Kingston Mines
Patchet, John	Murphysboro	Robinson, L. E.	do
<i>Patterson, J. C.</i>	Assumption	Rodden, John	Pana
Payne, Harvey	Riverton	Rodenburg, Charles	Belleville
<i>Peart, John</i>	Braidwood	Roe, Samuel	Oglesby
Penwell, C. T.	Pana	Roe, Thomas	do
Perrell, Thomas	Norris	Rogers, Charles	DuQuoin
Peterf, J. D.	Murphysboro	Rogers, Josiah	Braidwood
Pertier, Moses	Spring Valley	Rogers, Llewellyn	do
Phillips, James	Minonk	Rollo, George	Mount Olive
Pick, Edward	Centralla	Rollo, John	Gillespie
<i>Pickett, Robert</i>	Spring Valley	Rollo, William	Pana
Pieton, Joseph	St. David	Rookin, Thomas	Edwards Station
Pleton, John W.	Farmington	Ross, David	Oglesby
Pierson, Robert	Harrisburg	Rosshoton, James	Kingston Mines
Pierce, William	Edinburg	Rowland, Charles, ex	Belleville
Poelker, Joseph	Germanstown	Rundle, John C.	Colchester
<i>Pool, Edgar E.</i>	Murphysboro	Rundle, William	Pekin
Porter, George	Mapleton	Rutledge, Walton	Alton
Postle, John	Braceville	Rutledge, J. J.	Staunton
Powell, Albert E.	Belleville	<i>Ryan, James</i> (d)	Springfield
Powell, Evan	Murphysboro	Ryan, Thomas	N. Springfield
Powell, David, ex	Braceville		
Powell, J. E.	Sato		
Powell, Thomas H.	Belleville	Sangrelet, Marshall	Mount Olive
Powell, Samuel	Roanoke	Sanders, John M.	Hanna City
Prince, Thomas	Gillespie	Sansom, Henry S., ex	Streator
Proctor, Michael J.	Toluca	Sauer, Frederick	Belleville
Prudent, Edward	Centralla	Scaife, William	Coal City
Psyoe, John M.	Coal Valley	Schroll, Joseph	Bartonville
Pugh, Daniel	St. John	Schram, Richard	Belleville
<i>Pullen, Charles</i>	Litchfield	Scheldel, John	Bartonville
Pullen, James	Sorento	Schellschmidt, Ernst	East Peoria
Pye, William	Bartonville	Scully, William J.	Glen Carbon
		Scurrah, Castling R.	Braceville
Raby, Robert A.	Cuba	Secor, Frederick D.	Odin
Radford, Thomas, ex	Bloomington	Seddon, Thomas	Paisley

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Senloe, George.....	St. John.....	Sutton, Thomas.....	Millstadt.....
Sevan, Charles.....	Danville.....	Swansberg, John L.....	Danville.....
Shanahan, John C.....	Gillespie.....	Swarthout, J. P.....	Peoria.....
Shaw, James.....	Peoria.....	Syson, Frank.....	Niantle.....
Sharp, Montgomery, ex.....	Coal City.....		
Sholeen, R. A.....	Galva.....		
Sholl, Joseph.....	Bartonville.....	Tallman, John, ex.....	Kangley.....
Shields, Frank D.....	Pana.....	Tattersall, George.....	Seneca.....
Schuler, Charles.....	Gilchrist.....	Taylor, Charles.....	Edwards.....
Sidall, John S.....	Pana.....	Taylor, Daniel.....	do.....
Sidall, James.....	Streator.....	Taylor, Henry.....	Belleville.....
Siddle, John.....	Edwardsville.....	Taylor, James.....	Edwards.....
Simkin, Samuel.....	Streator.....	Taylor, Joseph.....	Springfield.....
Simmons, Thomas.....	Canton.....	Taylor, Thomas, ex.....	O'Fallon.....
Simpson, Isaac.....	Glen Carbon.....	Taylor, Thomas, ex.....	Springfield.....
Simpson, David.....	Spring Valley.....	Tenney, Charles.....	Danville.....
Simpson, David.....	Springfield.....	Thain, James.....	Riverton.....
Simpson, George A.....	do.....	Thom, Alexander, ex.....	Coal City.....
Simpson, George C.....	do.....	Thomas, H.....	Westville.....
Simpson, William J.....	Collinsville.....	Thomas, J. G.....	Spring Valley.....
Simpson, Thomas.....	do.....	Thomas, John R.....	Ladd.....
Simpson, Thomas.....	O'Fallon.....	Thomas, T. J.....	Collinsville.....
Sisk, A. J.....	Equality.....	Thomas, Reese.....	Spaulding.....
Skinner, Alexander.....	Diamond.....	Thomas, David B.....	Murphysboro.....
Skinner, David (d).....	do.....	Thomas, Richard.....	Ridge Prairie.....
Skinner, John.....	do.....	Thome, Martin, ex.....	Bartonville.....
Skinner, John.....	Astoria.....	Thompson, John.....	DeSoto.....
Skelton, A. H.....	Coal City.....	Thompson, Robert C.....	Murphysboro.....
Sloan, Edward C.....	Wesley City.....	Thompson, Mark.....	Sherrard.....
Small, James.....	Middle Grove.....	Thornton, James.....	DuQuoin.....
Smethurst, Nathan.....	Spring Valley.....	Thorand, Joseph.....	Trenton.....
Smith, Alexander M.....	Sandoval.....	Thrush, David.....	Farmington.....
Smith, David P.....	Dawson.....	Tolle, E. B.....	Kingston Mines.....
Smith, Felix.....	Birkner.....	Tregoning, Walter.....	Murphysboro.....
Smith, James.....	LaSalle.....	Twomley, Edwin, ex.....	Coal Valley.....
Smith, George A.....	Sandoval.....	Turton, William.....	Edwardsville.....
Smith, James L.....	Mount Olive.....		
Smith, James.....	East Peoria.....	Ulrich, Casper.....	Tilden.....
Smith, James L.....	Riverton.....		
Smith, James P.....	Collinsville.....		
Smith, Henry W.....	Springfield.....	Vallow, Charles.....	Kinmundy.....
Smith, Joseph.....	Bloomington.....	Vandebeur, John, ex.....	Springfield.....
Smith, T. J.....	Pana.....	Vandever, P. E.....	aylorville.....
Smith, William.....	Athens.....	Vicary, John, ex.....	Lincoln.....
Smith, William G.....	Riverton.....	Vose, John.....	Springfield.....
Smith, W. H.....	Hillsboro.....		
Smith, Thomas.....	Belleville.....		
Smith, W. J.....	Girard.....		
Sneddon, Richard.....	Virden.....	Wagner, I.....	Mapleton.....
Sneddon, Alexander.....	Peoria.....	Wallace, David.....	Carterville.....
Sollenberger, Harry C.....	Dunfermline.....	Walland Ed. S., ex.....	Bartonville.....
Solomon, John.....	Springfield.....	Wamsley, George.....	East Peoria.....
Soloman, Peter H.....	do.....	Walschtag, Stephen.....	Peoria.....
Spires, Alfred.....	Braceville.....	Walsh, Patrick.....	Springfield.....
Springer, Albert R.....	Glen Carbon.....	Walsh, Peter P.....	Pleasant Plains.....
Staehle, August.....	Belleville.....	Walters, Wm. H.....	Staunton.....
Stanton, William E., ex.....	Colchester.....	Wanless, Wm. H.....	Riverton.....
Stearns, James.....	Hallidayboro.....	Wanling, T. J.....	Peoria.....
Steiner, Benjamin.....	Sato.....	Wanting, Thomas.....	Pottstown.....
Steel, Alexander.....	Streator.....	Walters, Thomas W.....	Ladd.....
Steel, Daniel.....	Collinsville.....	Ward, Wilson.....	Riverton.....
Steel, James.....	Spring Valley.....	Warren, James M.....	Herrin.....
Steel, Neal.....	Centralia.....	Watson, George R.....	Wyoming.....
Stewart, D. G.....	Seatonville.....	Watkins, W. J.....	Danville.....
Stirrat, James.....	Peoria.....	Watts, Thomas J.....	Elmwood.....
Stockett, Howard N.....	Springfield.....	Watts, William.....	do.....
Stockett, Lewis.....	Collinsville.....	Weber, Henry.....	Murphysboro.....
Stockett, Thos. R. Jr.....	St. Louis, Mo.....	Webster, Richard.....	Collinsville.....
Stockman, W. H.....	DuQuoin.....	Weeks, Thomas.....	Streator.....
Stoneburrer, L. L.....	Moweaqua.....	Welsenborn, F. E.....	Mt. Olive.....
Storrie, Archibald.....	Seatonville.....	Wenneborg, Otto.....	Springfield.....
Stratman, Henry, ex. (d).....	Springfield.....	Westwater, David.....	Peekin.....
Straley, Peter.....	Canton.....	Westwood, Albert.....	Belleville.....
Strehel, George.....	Edwardsville.....	Westwood, John.....	Streator.....
Strickland, John.....	Coal City.....	Westwood, Thomas.....	Belleville.....

Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Wheatcraft, James.....	Elmwood.....	Wilson, H. C.....	Pekin.....
Whennen, Charles.....	Oglesby.....	Wilson, John B.....	Sparta.....
Whitaker, John.....	Collinsville.....	Wilson, John J.....	Wesley City.....
Whitaker, Wm. J.....	do.....	Wilson, Robert.....	Roanoke.....
White, John R.....	Belleville.....	Wilson, William.....	Middle Grove.....
White, Michael.....	Virdeu.....	Wilson, Thomas.....	Norris.....
White, Owen.....	Seatonville.....	Wilson, Wm.....	Sparta.....
Whitehead, Joseph.....	Farmlington.....	Wilson, W. R.....	Reed City.....
Wild, James.....	Murphysboro.....	Winneberg, W.....	Springfield.....
Wiley, Robertson.....	St. David.....	Winning, James.....	Carterville.....
Wilkinson, Frank.....	Westville.....	Winning, Robert.....	do.....
Wilkinson, T. H.....	Diamond.....	Winterbottom, John.....	Murphysboro.....
Williams, James.....	Murphysboro.....	Winters, Samuel P.....	Bartonville.....
Williams, Jeff.....	Farmlington.....	Wittman, Daniel.....	New Baden.....
Williams, John.....	Riverton.....	Walschlag, Stephen, ex.....	Peoria.....
Williams, Louis.....	Belleville.....	Wood, Henry.....	Streator.....
Williams, Robert H.....	Girard.....	Woods, William, ex.....	Morris.....
Williams, Walter.....	DuQuoin.....	Worthington, Willard.....	DuQuoin.....
Williams, Wm. H.....	Edinburg.....	Wright, John.....	Belleville.....
Williams, W. W.....	Hornsby.....	Wright, J. W.....	Kingston Mines.....
Williamson, Wm.....	Staunton.....		
Wilson, Hiram E.....	Carbondale.....	Yates, John.....	Belleville.....
Wills, Samuel.....	Westville.....	Young, Hiram.....	Girard.....
Wilson, John.....	Coal City.....	Young, Hugh G.....	Braidwood.....
Wilson, David.....	Murphysboro.....		
Wilson, David.....	Spring Valley.....	Zink, Peter A.....	Belleville.....
Wilson, Hugh.....	Kimmundy.....	Zoller, Robert H.....	Braidwood.....
Wilson, Alexander.....	Carbon Hill.....		
Wilson, Hiram.....	Carbondale.....		

MINE MANAGERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Adams, Charles T.....	Rosboro.....	Davis, Caleb.....	Collinsville.....
Alsopp, William H.....	New Castle.....	Davison, Matthew.....	DuQuoin.....
Andreas, August.....	Belleville.....	Deans, Henry.....	Percy.....
Angel, Hiram.....	Glenn.....	Donaly, James.....	Carterville.....
Atkinson, Edward.....	Streator.....	Duffner, J. W.....	Belleville.....
Axford, Thomas.....	Petersburg.....		
		Enstlinger, Emanuel E.....	Crab Orchard.....
Bailey, Robert.....	Sunfield.....	Entwhistle, Robert.....	Cochester.....
Bangart, Henry (d).....	Lincoln.....	Erwin, William.....	West Belleville.....
Barilett, Thomas.....	Cuba.....		
Barwell, John.....	Cutler.....	Fagan, Patrick.....	Decatur.....
Bates, W. H.....	Winchester.....	Fletcher, Adam.....	Ladd.....
Betz, Charles C.....	DuQuoin.....	Forsythe, Peter.....	Centralla.....
Bolander, John.....	Pekin.....	Forsythe, Thomas.....	do.....
Bracken, James A.....	Greenview.....	Fowler, Henry.....	Millersburg.....
Brown, Jabez.....	Cutler.....	Franklin, Bernard.....	Lincoln.....
Brown, Thomas M.....	Plekmeyville.....		
Bunting, J. H.....	Grape Creek.....	Gilbert, Edward.....	Niantic.....
Bushong, Andrew M.....	Danville.....	Glenn, John.....	Peoria.....
		Goodier, Wm.....	Cuba.....
Caldwell, James.....	Elmwood.....	Golden, George.....	Springfield.....
Cameron, Duncan S.....	Sorento.....	Grabner, Henry.....	Orchard Mines.....
Cape, Thomas.....	Fairview.....	Grant, David.....	Pekin.....
Chere, George.....	Pleasant Plains.....	Gray, John (d).....	Roanoke.....
Christie, David.....	Murphysboro.....	Green, Robert.....	Springfield.....
Collier, Frank J.....	Bartonville.....	Greenwood, Robert.....	DuQuoin.....
Cooper, Charles.....	Nilwood.....	Grieve, Peter.....	Collinsville.....
Coster, George.....	Grape Creek.....	Griffith, William, A.....	Colona.....
Crawson, Elihu.....	O'Fallon.....		
Cummings, William.....	Rushville.....	Haddick, Robert.....	Cable.....
Cusack, M.....	Edwards.....	Haensel, Daniel.....	Lenzburg.....
		Harrison, Ernest.....	Streator.....
Dale, John.....	Fredonia.....	Heinz, John L.....	LaSalle.....
Davenport, John.....	Harrisburg.....		

Certificates of Service—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Howe, William.....	Streator	Oexner, Wendell.....	West Belleville..
Hoye, James.....	Braldwood	Parkin, William.....	Sweetwater
Hutton, James.....	Tallula	Patterson, J. C.....	Assumption
Hallenmeyer, Julius.....	Golden Eagle.....	Pearl, John.....	Braldwood.....
Jenkins, Eugene.....	Bartonville.....	Pfander, Fred.....	Peoria.....
Jerremere, Wm. M.....	DuQuoin.....	Pickett, Robert.....	Canton.....
Jones, David.....	Marissa.....	Pool, Edgar E.....	Murphysboro.....
Keller, George, Jr.....	Bartonville.....	Price, David.....	Fairbury
Kidd, Andrew.....	Wenona.....	Price, James L.....	Danville
Kidd, Eugene.....	Ridge Prairie.....	Pullen, Charles.....	Sorento
Kirley, Bernard.....	Kewanee	Radford, William.....	Cuba
Klingenhagen, Henry.....	Belleville.....	Rundle, Jesse.....	Birkner
Kramer, Anthony F.....	Sato.....	Reynolds, William.....	East Peoria.....
Laumbattus, Philip H.....	Tamaroa.....	Royster, Moses L.....	Peoria.....
Lenze, Charles.....	Belleville.....	Rusche, Christian (d).....	East Peoria.....
Lloyd, Hosea W.....	Sheffield.....	Ryan, James.....	Springfield.....
Mason, Mark, Jr.....	Sato.....	Schmidt, Frank P.....	Limestone.....
Maale, Robert.....	Belleville.....	Shaw, Nathan.....	Kramm
Meehan, Patrick.....	Breeds	Smith, David P.....	Dawson
Meehan, Peter.....	Williamsville.....	Smith, Felix.....	Breeze
Meredith, C. W.....	Augusta	Solomon, Robert.....	Springfield.....
Michaels, Lewis.....	Belleville.....	Spencer, George.....	DuQuoin.....
Miller, Nicholas.....	Lebanon	Stanway, George.....	Blair.....
Miller, William.....	Lenzburg.....	Stark, Andrew.....	Galva.....
Milen, John.....	Norris.....	Stewart, David J.....	Seatonville.....
Millett, Thomas.....	Collinsville.....	Stubbsatz, Michael.....	Kewanee.....
Moffatt, Thomas.....	Percy.....	Sutton, Thomas.....	Millstadt.....
Monaghan, Edward.....	Carbon Hill.....	Swan, Charles.....	Oakwood
Morin, Jeremiah.....	Danville.....	Swisher, James E.....	St. David.....
Morton, Robert.....	Virginia.....	Teifer, Alexander W.....	Morris
Murphy, John.....	Braldwood	Terrill, Thomas.....	Colchester.....
McCleary, James.....	Kangley	Thompson, John.....	DeSoto.....
McDonald, Daniel.....	Menard.....	Thornton, James.....	DuQuoin.....
McDowell, James A.....	Grape Creek.....	Waugh, George, Sr.....	Peoria
McKernan, James.....	Collinsville.....	Westwood, Thomas.....	Belleville.....
Neal, William.....	Murphysboro	Wilkin, John B.....	Petersburg.....
Nicholson, William.....	Cuba	Williams, John.....	Sato
Noyd, Lewis.....	Galva	Williams, John T.....	Coalville
		Williams, Walter.....	DuQuoin.....
		Wilms William.....	Springfield.....

MINE MANAGERS HOLDING CERTIFICATES OF COMPETENCY AT MINES
EMPLOYING NOT TO EXCEED TEN MEN.

Name.	Postoffice.	Name.	Postoffice.
Aby, J. J.....	Laura	Anna, Charles.....	Wataga.....
Adams, J. M.....	Denmark	Argus, Leonard.....	Belleville.....
Aldrage, John.....	Danville	Ascraft, J. W.....	Mayton.....
Aldridge, William R.....	do	Atkinson, Amos.....	Colchester.....
Aldrich, M. M.....	Geneseo	Atkinson, M.....	Kewanee.....
Ahlgren, Emil.....	Kewanee	Atkinson, Chas. W.....	Colchester.....
Alexander, Orle A.....	Huntsville.....	Axley, Edward.....	Roodhouse.....
Allen, James T.....	Pleasant View.....	Backling William.....	East Peoria.....
Allen, W. P.....	Spillerton	Backofen, Jacob.....	Littletown.....
Allison, John.....	Loding.....	Bailey, Oliver.....	Carbondale.....
Allison, Elmer.....	Danville.....	Baird, W. C.....	do
Anderson, Alexander.....	Sato.....	Baird, Oswald.....	Colchester.....
Anderson, Lee A.....	Streator.....	Baker, L. C.....	Oakwood
Anderson, N. C.....	Ottawa		
Anderson, M. H.....	Knoxville		

Mine Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Baker, William H.....	Industry.....	Carlson, Andrew F.....	Kewanee.....
Baker, Joseph.....	Ottawa.....	Carroll, C. E.....	Duncan.....
Bales, Joseph L.....	Danville.....	Carrel, A. J.....	DuQuoin.....
Ball, Samuel.....	North Alton.....	Carter, Eimer.....	Camden.....
Banney, H. E.....	Abingdon.....	Carter, Joe.....	Kewanee.....
Barber, William.....	Colchester.....	Carson, Charles H.....	Flat.....
Bargreen, Charles.....	Streator.....	Carrison, George.....	Colchester.....
Barnett, W. M.....	Palzo.....	Casteter, John.....	Streator.....
Barter, Charles.....	Bryant.....	Casteter, William.....	do.....
Bates, Geo. H.....	Kewanee.....	Catton, John.....	West Jersey.....
Bath, Isaac.....	Lewistown.....	Catton, C. F.....	do.....
Bath, Abraham.....	St. David.....	Chadwick, E.....	Oak Hill.....
Baugh, William.....	Henry.....	Charlingsworth, Amos C.....	Fosterburg.....
Bectler, John.....	Pekin.....	Chesney, Alonzo T.....	Ava.....
Beddow, Benj.....	Danville.....	Chilton, Richard.....	Kewanee.....
Beers, M. A.....	Cable.....	Chipping, W.....	Canton.....
Beever, J. H.....	Farmington.....	Chorlton, James.....	French Village.....
Begum, Geo. E.....	Ottawa.....	Christman, Charles W.....	Sparland.....
Bell, James.....	Morris.....	Clark, James A.....	Equality.....
Bell, Charles.....	Pleasant View.....	Clark, J. H.....	Brimfield.....
Beltz, Lindolph.....	Carterville.....	Clarkson, William H.....	Edwards.....
Bennett, Fred.....	Chillicothe.....	Clarkson, Lorenzo.....	Kickapoo.....
Benson, William.....	Winchester.....	Clifford, Geo. L.....	Onelda.....
Berry, John.....	Macomb.....	Cody, Richard.....	Peoria.....
Berry, Charles.....	Monica.....	Coeslpire, G.....	Galesburg.....
Berry, W. J.....	Macomb.....	Colburn, John R.....	Vandercook.....
Berry, R. M.....	Cottage Grove.....	Colwell, Robert.....	Brimfield.....
Beuer, Jacob W.....	Castletown.....	Colwell, H.....	Duncan.....
Beuer, Joseph.....	do.....	Colwell, George.....	Wyoming.....
Bexton, William G.....	Colchester.....	Covert, Lewis M.....	Oakwood.....
Bird, Daniel.....	Roseville.....	Cook, Charles.....	Grape Creek.....
Birdois, D.....	Peoria.....	Cook, James K.....	Etherly.....
Birdois, John.....	do.....	Cook, W. H.....	Alexis.....
Blagden, Richard.....	Leaman.....	Cook, Louis B.....	Etherly.....
Blessing, George.....	East Peoria.....	Cooper, Albert W.....	Petersburg.....
Blockley, Rufus.....	Equality.....	Cowens, W. P.....	Pinckneyville.....
Blotevagel, William.....	Worden.....	Combs, J. W.....	Kewanee.....
Blue, J. W.....	Grape Creek.....	Coulson, Foster.....	Wyoming.....
Blue, Ed.....	do.....	Cressey, George.....	Colchester.....
Bode, W. H. H.....	Chesterfield.....	Cryer, John H.....	Morris.....
Boden, Ed.....	Preemption.....	Crew, Joseph.....	Chillicothe.....
Boldwyn, T. W.....	Vergennes.....	Croxton, Fred W.....	Pleasant View.....
Boostrom, Ben B.....	Wataga.....	Croxton, Walter.....	do.....
Bonnett, A. H.....	Pilot.....	Crozlea, E.....	Etherly.....
Bowman, G. W.....	Yates City.....	Crowse, James W.....	Union.....
Boyer, A. P.....	Etherly.....	Cunningham, Lewis.....	Danville.....
Braunaman, F. L.....	Danville.....	Cunningham, R. A.....	Cutler.....
Brandt, William.....	Mineral.....	Cummings, Wm. M.....	Rushville.....
Brannan, James.....	Grape Creek.....	Curtiss, Sanford.....	Rockbridge.....
Brinley, Ross.....	Danville.....	Cutler, F. H.....	Princeville.....
Brophy, M.....	Shelbyville.....		
Brown, John.....	Ottawa.....	Dainty, Jabez.....	St. David.....
Brown, S. C.....	Lewistown.....	Dalton, Isam.....	Yates City.....
Brooker, Fred.....	Lowell.....	Daniel, Jay.....	Danville.....
Bryan, John.....	Grape Creek.....	Daugherty, Robert T.....	Table Grove.....
Bryner, Leonidos.....	Roseville.....	Davis, Charles.....	Abingdon.....
Buchanan, B. M.....	Streator.....	Davis, Benjamin.....	Streator.....
Bullock, Joseph.....	Collinsville.....	Davis, T.....	Fayette.....
Bunt, Joseph.....	Colchester.....	Davidson, Thomas.....	Griffin.....
Bunting, C. J.....	Danville.....	Dalton, Augustus.....	Yates City.....
Burdick, Frank.....	Industry.....	Dawson, J. C.....	Deer Park Glen.....
Burk, W. W.....	Conant.....	Deaven, Camille.....	Orchard Mines.....
Burney, Ralph.....	Colchester.....	Delaney, Thomas.....	Avon.....
Butter, William.....	Stonefort.....	Dempsey, G. F.....	Equality.....
Byrnes, John.....	Brighton.....	DeWolf, Ernest.....	Victoria.....
		Denton, Fred.....	Petersburg.....
Cagle, William.....	Frederick.....	Dickinson, Joseph.....	Norris.....
Cagle, John.....	Littleton.....	Dickson, Wm. W.....	Colchester.....
Cagdall, A. C.....	Stonefort.....	Deltrich, Phillip.....	Freeburg.....
Caldwell, Thomas.....	Avon.....	Dills, Martin.....	New Burnside.....
Campbell, Ed.....	White Hall.....	Dixon, A.....	Princeville.....
Campbell, Andrew F.....	Roseville.....	Dixon, J. E.....	Kewanee.....
Campbell, Francis A.....	Viola.....	Dodds, T.....	Lafayette.....
Cameron, Henry.....	do.....	Doering, Wm. F.....	East Peoria.....

Mine Managers (Ten Men), Certificates of Competency—Continued

Name.	Postoffice.	Name.	Postoffice.
Dolan, Peter.....	Wataga.....	Gilligan, Jackson.....	Industry.....
Doty, L. B.....	Truro.....	Glenn, Jethn.....	Briar Bluff.....
Dougherty, F.....	Preemption.....	Golden, James.....	Kewanee.....
Dowell, Allen B.....	Campbell Hill.....	Goode, Joseph.....	Lombardville.....
Drake, Stephen A.....	Canton.....	Goudy, W. S.....	Brimfield.....
Draper, A. L.....	Vandercook.....	Grant, August.....	Kewanee.....
Dryer, Andrew.....	Danville.....	Greear, William.....	Coal Valley.....
Dudley, Z. F.....	Knoxville.....	Grice, Albert.....	Kewanee.....
Duff, Robert G.....	Kewanee.....	Griffiths, Edward.....	Roodhouse.....
Dull, E. B.....	Tennessee.....	Griffiths, Thomas W.....	White Hall.....
Duncan, John.....	Sheffield.....	Griffiths, D.....	Caseyville.....
Dunn, Harvey.....	Oscola.....	Griffiths, James.....	Grape Creek.....
Durrant, H.....	Brimfield.....	Griggs, Allison.....	Brimfield.....
Durham, Simon.....	Canton.....	Grim, David Jr.....	Victoria.....
Dunsford, Charles.....	Absher.....	Grossman, Louis.....	Smithton.....
		Grosweiler, Joseph Jr.....	Pekin.....
		Groth, John.....	Carbon Cliff.....
		Groy, Max.....	Kewanee.....
		Guckert, F. P.....	Hampton.....
		Gurten, Louis.....	Pinckneyville.....
		Guy, Thomas.....	Colchester.....
Ebel, August.....	Belleville.....		
Edison, James.....	Ottawa.....	Halding, James A.....	Wyoming.....
Edwall, C. W.....	Galva.....	Hall, John.....	Colchester.....
Edwards, Thomas.....	Streator.....	Hall, John.....	Grape Creek.....
Edwards, T. J.....	Crab Orchard.....	Hall, Charles.....	Dunfermline.....
Edwards, Geo.....	Huntsville.....	Hall, Geo. W.....	Newton.....
Edward, David L.....	Coal Valley.....	Hamilton, John W.....	Frederick.....
Edwards, A. G.....	New Burnside.....	Hamilton, John.....	Cuba.....
Elmwood, A. B.....	Kewanee.....	Handly, John L.....	Coal Valley.....
Elker, Geo. L.....	Knoxville.....	Hannmann, Wm.....	Okawville.....
Elliott, James.....	Caseyville.....	Harnisch, Ernest.....	Brighton.....
Emerick, Alonzo.....	Farmington.....	Harrington, Frank.....	Farmington.....
Enns, James.....	Peoria.....	Harrington, D.....	Danville.....
Enslinger, E. E.....	Crab Orchard.....	Ha rris, A. J.....	Tilton.....
Entwistle, W.....	Colchester.....	Harris, Oliver.....	Canton.....
Erhardt, Anton.....	Belleville.....	Harris, Hardy.....	Catin.....
Ernst, Frank.....	St. Johns.....	Harrman, John.....	Peoria.....
Espley, J. T.....	Morris.....	Harvey, John.....	Murphysboro.....
Essex, G. W.....	Soperville.....	Haskins, Alfred.....	Grape Creek.....
Evans, Ed E.....	Streator.....	Havens, Bert.....	Truro.....
Evans, Lewis.....	Kangley.....	Heathcock, George.....	Princeton.....
Evans, W. L.....	Cottage Grove.....	Heather, James.....	Morris.....
Eynman, Albert.....	Lewistown.....	Heintz, A. F.....	Kickapoo.....
		Hendee, Isaac.....	Bernadotte.....
Fairley, John.....	Cambridge.....	Henson, John E.....	Denmark.....
Farrell, Hugh.....	Monica.....	Hennemann, Charles.....	Belleville.....
Faust, Jacob.....	Pinckneyville.....	Herman, John.....	Oraville.....
Fink, Frank.....	Truro.....	Herkstrom, E.....	Victoria.....
Fish, William.....	Appleton.....	Herrington, Thomas.....	Princeton.....
Fisher, W.....	Murrayville.....	Herseman, Herman.....	East Peoria.....
Fisher, Alcide.....	Brighton.....	Hewitt, William B.....	Chenoa.....
Flemming, Thomas.....	Morris.....	Hews, W. B.....	Canton.....
Flynn, William.....	Briar Bluff.....	Hickson, David.....	Ottawa.....
Forester, W. M.....	Equality.....	Higbee, Lawrence.....	Princetonville.....
Foster, Geo. W.....	Colchester.....	Hissong, Charles.....	Tilden.....
Foster, Thurman.....	Carbondale.....	Hibbard, Geo. A.....	Limestone.....
Fox, Thomas.....	Lewistown.....	Hillard, E.....	Colchester.....
Francis, Wm. G.....	Streator.....	Hillier, Walter T.....	Carbondale.....
Francis, C. W.....	Catin.....	Hind, Robert.....	Salisbury.....
Fredrickson, Andrew.....	Danville.....	Hinderer, Frank.....	Frederick.....
French, Strawther.....	Bradford.....	Hoar, William.....	Colchester.....
Frisby, E. O.....	Sparland.....	Hodge, S. M.....	Danville.....
Frost, Michael.....	Danville.....	Hodge, John W.....	Rushville.....
Fry, John.....	Kay.....	Hodge, Benjamin A.....	Danville.....
Fuller, James K.....	Modena.....	Hodgett, Absalom.....	Kewanee.....
		Hodgson, Wm.....	Colchester.....
Gallagher, W. F.....	Mode.....	Hogercamp, Walter.....	Pontiac.....
Gallraith, Zacharias.....	Morris.....	Hohimer, Harry.....	Petersburg.....
Gainey, Thomas.....	Carbon Cliff.....	Horrocks, Benj.....	Henry.....
Garland, Samuel.....	Kewanee.....	Howard, Charles.....	Modena.....
Geisler, Henry.....	Brighton.....	Hudson, Samuel.....	White Hall.....
Gensol, Joseph.....	Lewistown.....	Humes, Michael.....	Colchester.....
Giebelhausen, Gus E.....	Peoria.....		
Gerlach, Geo. F.....	Sparta.....		
Gibbide, Frank.....	Morris.....		
Gillette, Charles.....	Elmira.....		

Mine Managers (Ten Men), Certificates of Competency—Continued

Name.	Postoffice.	Name.	Postoffice.
Isackson, Martin.....	Wataga.....	Lealard, John.....	Grape Creek.....
Isaacson, P. O.....	do.....	Lee, Thomas.....	Youngstown.....
Ingram, Robert H.....	Sparland.....	Lee, James.....	Alexis.....
Irwin, James.....	Green River.....	Leeper, Charles W.....	Equality.....
Ivans, W. L.....	Cottage Grove.....	Lewis, Charles E.....	Galesburg.....
		Lewis, Wallace.....	Cambridge.....
Jacobs, John.....	Wataga.....	Liewrance, B.....	Youngstown.....
Jacquot, Augustare.....	Danville.....	Lillman, Alfred.....	Cable.....
Jack, John.....	Marion.....	Lincoln, E.....	Kewanee.....
Jamieson, E. J.....	Loding.....	Linden, P.....	Canton.....
Jamieson, Guy.....	do.....	Lindbeck, P.....	Wataga.....
Jarrell, Miles.....	Cottage Grove.....	Lingast, L.....	Grape Creek.....
Jayne, Richard.....	Cuba.....	Little, George.....	Roseville.....
Jenkins, D. A.....	Danville.....	Little, John T.....	Roodhouse.....
Jenner, A. T.....	Pinckneyville.....	Little, J. H.....	do.....
Johnson, C. E.....	Canton.....	Littlefield, Joseph.....	Brimfield.....
Johnson, Cornelius F.....	Middletown.....	Lloyd, Elisha.....	Danville.....
Johnson, J.....	Farmington.....	Lloyd, Benj. F.....	do.....
Johnson, Benjamin.....	Smithboro.....	Lockane, David L.....	Lewistown.....
Johnson, J. E.....	Dunfermline.....	Lodging, E.....	Loding.....
Jones, W. L.....	Bradford.....	Loper, J. B.....	Chesterfield.....
Jones, C. S.....	Sato.....	Lord, James.....	Galva.....
Jones, W. W.....	Bradford.....	Lowry, Samuel.....	Lewistown.....
Jones, A. J.....	Peoria.....	Lor, D. O.....	Atkinson.....
Jones, A. H.....	Colchester.....	Lucking, Edward J.....	Fosterburg.....
Jones, James H.....	Streator.....	Lyons, Maxwell.....	Coal Valley.....
Jones, John L.....	Peoria.....		
Jones, Jackson.....	Winchester.....	Mable, William.....	Fairview.....
Jones, W. H.....	Catlin.....	Mahler, G. W.....	Ray.....
Jones, Wm J.....	Kewanee.....	Malone, Harry.....	DuQuoin.....
Jones, Evan A.....	Catlin.....	Mallergren, James W.....	Petersburg.....
Jones, Arthur.....	Viola.....	Mansill, Richard.....	Rock Island.....
Jones, Thomas.....	Peoria.....	Martin, William, Sr.....	Colchester.....
Joos, Conrad.....	do.....	Martin, G. W.....	Laoc.....
Jordan, Will.....	St. David.....	Martin, J. B.....	do.....
Jordan, John L.....	Trivoli.....	Martin, J. W.....	Farmington.....
Jordan, E. S.....	Newton.....	Martin, Fred.....	Peoria.....
Joubost, George.....	Grayville.....	Martin, John H.....	Canton.....
Jourdan, Wm. L.....	Smithton.....	Martin, Patrick.....	Peoria.....
		Martin, William, Jr.....	Colchester.....
Kabel, Herman.....	Moro.....	Marriage, Joseph.....	Grape Creek.....
Kavanaugh, J. A.....	Colchester.....	Marxer, Joseph.....	Millstadt.....
Kay, James.....	Atkinson.....	Marley, Richard.....	Atkinson.....
Kay, William H.....	Morris.....	Marshall, G. A.....	Cuba.....
Kay, Bert.....	Atkinson.....	Marshall, J. C.....	Caseyville.....
Kay, Robert.....	Briar Bluff.....	Mason, Frank A.....	Carbondale.....
Kelly, Thomas.....	Grape Creek.....	Massey, Jesse.....	Streator.....
Kear, George G.....	Sparland.....	Matsinger, Theodore.....	Crab Orchard.....
Kearney, John.....	Shelbyville.....	Mauck, Joseph.....	Danville.....
Keen, A. G.....	Friendsville.....	Mauck, L. F.....	do.....
Kempin, Henry.....	Kewanee.....	Medearis, Jas.....	Henry.....
Kerr, William.....	Rushville.....	Meiker, B. F.....	Danville.....
Kershaw, J. W.....	Briar Bluff.....	Melvin, Leo.....	Kewanee.....
Kidd, J.....	Roseville.....	Melven, R.....	do.....
Kielhorn, William C.....	Shawneetown.....	Meller, Louis.....	Brighton.....
King, Ambrose L.....	Victoria.....	Memmer, L.....	Canton.....
Kilgore, William T.....	New Burnside.....	Mercy, Geo.....	St. David.....
King, Joseph.....	Pekin.....	Merrill, R. M.....	Campbell Hill.....
King, Henry R.....	Campbell Hill.....	Mescher, W. T.....	LaHarpe.....
Kingston, Paris.....	Equality.....	Miller, George A.....	Danville.....
Kimes, Oscar.....	Streator.....	Miller, Silas.....	Grape Creek.....
Kipling, William.....	Colchester.....	Miller, Eliza.....	do.....
Klingenfus, Emil.....	Belleville.....	Miller, Smith.....	Mapleton.....
Knoth, John.....	Roodhouse.....	Miller, L. S.....	Grape Creek.....
Kortkamp, A.....	North Alton.....	Miller, Geo. A.....	Danville.....
		Mitchell, Robert T.....	Prairietown.....
Lamay, David.....	Monica.....	Mobaker, John.....	Danville.....
Lamb, Edwin.....	Kewanee.....	Molloy, John.....	North Alton.....
Lambert, Austin H.....	Keensburg.....	Montooth, Chas.....	Bradford.....
Lane, James.....	Peoria.....	Moorman, Mark.....	Illinois City.....
Laity, Richard.....	Colchester.....	Morrison, Alva.....	Modena.....
Laurer, Nick.....	Pinckneyville.....	Moore, Nanly.....	Saline Mines.....
		Moore, W. F.....	Victoria.....
		Morrison, D. D.....	Danville.....

Mine Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Morris, Geo. J.	Millersburg	Perry, D. E.	Colchester
Morgan, Charles	Oneida	Peters, Bernard	Swansea
Mordue, Geo.	Colchester	Peters, M.	Streator
Mosher, Charles	Etherly	Peterson, August	Soperville
Moss Oliver	Vergennes	Phillips, Sebirt	Carbondale
Morton, T. J.	Danville	Preston, Bryan B.	Cable
Mowbray, Jno	Atkinson	Presswood, C.	Pinckneyville
Munts, Wm.	Streator	Price, Benjamin	Kewanee
Murphy, Fred	Belleville	Pickett, George	Danville
Murphy, Led.	Monmouth	Pistor, William	Millstadt
Murphy, Chas. H.	Canton	Polonius, George	Colchester
Murcheson, Kennith	Kewanee	Politt, James H.	Canton
Mustard, Elijah	Canton	Poore, William	Kickapoo
Muzzy, William H.	Peoria	Posten, M. W.	Briar Bluff
Myers, W. H.	Carbondale	Porter, William H.	Macomb
Myers, Geo.	Ottawa	Portwood, James	Lewistown
Myers, Perry	Bethalto	Potter, L.	Mapleton
Myers, Chas.	LaHarge	Powers, James	New Burnside
McAnnally, Jno	Norib Alton	Presson, J. A.	Carbondale
McCartney, C. T.	Alexis	Price, John	Wyoming
McClure, Marion	Colchester	Proctor, Christopher	Elmwood
McCullough, Jas.	Ottawa	Pyle, Joseph F.	Kewanee
McDonald, Samuel	Moro		
McElwee, Charles F.	Winchester		
McGovern, T. B.	Oneida	Raddlebeck, Jossph	Brimfield
McGovern S.	do	Raffee, Robert	Farmington
McGuire, John	Alsey	Rand, John	Bryant
McGuire, Patrick	Winchester	Rands, Thomas	Chesterfield
McKahan, Sam'l R.	Alexis	Ratcliffe, Arthur	Neponset
McKane, R.	Galva	Ratley, Charles	Cypress Junction
McKeen, William H.	Danville	Ray, A. B.	Catin
McLain, William H.	Equality	Ratley, James E.	Equality
McMichael, T. M.	New Burnside	Ray, William	Danville
McMillin, William J.	Streator	Rayborn, George	Winchester
McNaught, Henry	Williamsfield	Reed, William	Soperville
McNeil, William	Griffin	Reennick, William C	Modena
		Reed, W. B.	Wilsman
		Reed, John	Herrin
Nee John J.	Colchester	Reib, Conrad	Belleville
Nelson, James	Knoxville	Reld, J. Thomas	Saline Mines
Nelson, Louis	Streator	Reinhardt, Frank	Wataga
Nelson, Nels	Ottawa	Reiff, Jacob	Kewanee
Nelson, John S.	Morris	Reeves, John	Hudgens
Nelson, Chris	Chanderville	Revis, J. H.	Roodhouse
Neville, William	Catin	Renshaw, John	Eden
Newell, J.	Sparland	Reese, Lemuel	Streator
Newton, F. B.	Modena	Rhoades, Benjamin	Shelbyville
Newton, Geo. H.	Toulon	Ribley, R.	Cuba
Nibbelin, John	Elwood	Richardson, John	Sheloyville
Nighswonger, Asa	Sparland	Richardson, William	Moro
Nodeon, E. W.	Wataga	Richards, Thomas	Ottawa
Norris, Floyd	DuQuoin	Rich, John C.	Carbondale
Nozley, Alfred	Golden	Richard, George	French Village
Nyde, John E.	Galva	Riegels, Adolph	Golden Eagle
		Riley, J. R.	Breeds
		Riley, Michael	Braidwood
O'Daniel, Arthur	Danville	Riley, Cyrus W.	Mineral
Owens, Orbly G.	Stonefort	Riley, Elerof	Atkinson
		Ringer, Benjamin	Morris
		Robbins, J. W.	Glasford
Pahlman, H.	Bluffs	Robinson Benjamin	Wyoming
Parker, William	Milan	Robinson, William	Colchester
Parker, W. G.	Winchester	Robinson, J. M.	Elmira
Parle, Sylvester	Danville	Robinson, John W.	Wyoming
Parr, Joseph	Princeville	Robinson, Robert	do
Parthan, M.	Sato	Roberts, Evan D.	Streator
Paul, John	Sheffield	Roberts, David	Orchard Mines
Payne, Charles C.	St John	Roberts, Henry F.	Modena
Pearson, William M.	Astoria	Roddls, Charles	Ipava
Peck, E. E.	Canton	Rodell, Frank	Wataga
Pendergast, John	Soperville	Rogers, David	Kickapoo
Penman, James	Streator	Rohr, Joseph C.	Alexis
Penman, William	Preemption	Ronk, G. H.	Canton
Penn, George	Belleville	Rook, John	Brimfield
Perkins, John E.	Osceola	Roosa, V. L.	Pleasant View

Mine Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Rose, James.....	Equality.....	Swanson, Andrew.....	Colchester.....
Royse, Sylvester.....	South Danville.....	Swenson, John.....	Danville.....
Ryan, Philip.....	Ashland.....	Sydall, Peter.....	North Alton.....
Russell, John R.....	Danville.....	Swafford, William.....	DuQuoin.....
		Switzer, James.....	Astoria.....
Sackville, James.....	Coal Valley.....		
Sample, John.....	Laura.....	Tattersoll, George.....	Seneca.....
Saunders, W. G.....	Monica.....	Taylor, James.....	Belleville.....
Saupe, John J.....	Peoria.....	Taylor, Robert.....	Princeville.....
Savill, Charles A.....	Canton.....	Taylor, Francis.....	Blandensville.....
Savill, Jesse.....	Modena.....	Teague, James.....	Winchester.....
Scanlon, M. C.....	Canton.....	Teel, James C.....	Industry.....
Schaffer, William.....	Danville.....	Telfer, John K.....	Morris.....
Schmidt, August.....	Millstadt.....	Telfer, John W.....	do.....
Schulte, William.....	Kickapoo.....	Tesdale, Henry.....	do.....
Schultz, Fred.....	Braceville.....	Thompson, Jacob.....	Grape Creek.....
Scott, John.....	Modena.....	Thompson, James F.....	Ray.....
Selbrick, J.....	Monmouth.....	Thompson, Joseph.....	Etherly.....
Sergeant, Frank.....	Belleville.....	Thompson, Joe.....	Grape Creek.....
Shafer, Solomon.....	Summum.....	Thomas, William.....	Streator.....
Shea, John G.....	Danville.....	Thomas, James.....	Danville.....
Sherrett, James.....	E. Peoria.....	Thomas, George.....	Sheffield.....
Shreffler, R. D.....	Pekin.....	Thurston, John H.....	Wyoming.....
Shelton, W. J.....	Cottage Grove.....	Todd, Ralph.....	Kewanee.....
Shore, William.....	Chandlerville.....	Todd, Geo. B.....	Catin.....
Silvis, S.....	Carbon Cliff.....	Todd, John.....	Victoria.....
Simmons, Alfred B.....	Roodhouse.....	Toney, A.....	Grape Creek.....
Simons, William H.....	Monica.....	Tompkins, C. S.....	Mineral.....
Sincox, John.....	Alexis.....	Tompkins, Harvey.....	St. David.....
Simpson, Charles.....	Wataga.....	Towner, L. H.....	Bluff City.....
Simpson, Newton M.....	Ray.....	Treasure, William.....	Essex.....
Simpson, Joseph.....	Youngstown.....	Tucker, Charles.....	Mineral.....
Sitring, H. P.....	Stonefort.....	Tucker, Edward.....	East Peoria.....
Silment, James.....	Centre Station.....	Tucker, P. F.....	Whitehall.....
Smith, John.....	Atkinson.....	Tulk, M. B.....	Colchester.....
Smith, A. J.....	Saline Mines.....	Tully, P. F.....	Brimfield.....
Smith, Geo. W.....	Colchester.....	Turner, John.....	Lewistown.....
Smith, James.....	Princeton.....	Turner, George.....	do.....
Smith, B. F.....	Modena.....	Twiney, William A.....	Shelbyville.....
Smith, John.....	Frederick.....	Tygett, John.....	Carbondale.....
Smith, Thomas B.....	Streator.....	Tyla, H.....	Wataga.....
Smith, Thomas.....	Ottawa.....	Tyler, Church.....	St. David.....
Smith, Charles.....	Sparland.....		
Sowerly, Joseph.....	Streator.....	Underwood, J. H.....	Equality.....
Spangler, Charles.....	Danville.....		
Sparks, Charles.....	Crab Orchard.....	Vandyke, William.....	Canton.....
Sparks, Edgar.....	Astoria.....	Varner, Wilson P.....	Marietta.....
Spencer, Charles.....	Victoria.....	Vaughn, William.....	Jubilee.....
Spiller, Henry.....	Herrin.....	Vaughn, Elijah.....	do.....
Springman, Ed.....	Brighton.....	Vaught, John H.....	Shawneetown.....
Stader, W. H.....	Equality.....	Vezain, George.....	Ottawa.....
St. Clair, James A.....	Macomb.....	Vickery, Henry.....	Pottstown.....
Stevens, Isaac.....	Cuba.....	Vogt, Leon.....	Shawneetown.....
Staton, Joseph.....	Pekin.....		
Stevens, John.....	Cuba.....		
Stine, William.....	Danville.....		
Stone, Isaac.....	Colchester.....		
Stone, William.....	do.....	Wages, E.....	Canton.....
Stone, Charles.....	do.....	Waine, James.....	Atkinson.....
Stone, Thomas.....	Carbon Cliff.....	Wainwright, Arthur.....	Sweetwater.....
Storey, Harry.....	Toulon.....	Walker, James.....	Mapleton.....
Straley, J. E.....	Canton.....	Wallis, D. J.....	New Burnside.....
Straley, James H.....	Norris.....	Walsh, John.....	Truro.....
Straud, Charles.....	Roseville.....	Walsh, John.....	Milan.....
Stretch, William.....	Shelbyville.....	Walton, A. W.....	Princeton.....
Strewbinger, Conrad.....	French Village.....	Ward, J. D.....	Pulley's Mill.....
Stockton, O. F.....	Rushville.....	Watkins, W. J.....	Danville.....
Strong, Ralph.....	Pleasant View.....	Watson, William.....	Wyoming.....
Strong, J. P.....	Shawneetown.....	Wayland, James.....	Colchester.....
Suggett, William.....	Breeds.....	Weimer, J. R.....	Cambridge.....
Summerson, John.....	Coal Valley.....	Wearmouth, Thomas.....	Youngstown.....
Summerson, Robt.....	do.....	Webster, William.....	Colchester.....
Swanson, Axel.....	Cable.....	Weiss, W.....	Belleville.....
Swanson, Otto.....	do.....	Welford, T. H.....	Absher.....

Mine Managers (Ten Men), Certificates of Competency--Concluded.

Name	Postoffice.	Name.	Postoffice.
West, John C.....	Pine Grove.....	Willson, Anthony.....	Danville.....
West, John A.....	.. do.....	Willstead, Thomas.....	Rfo.....
Westerlund, John.....	Streator.....	Winchouse, W.....	Danville.....
Whalen, M., Jr.....	Colchester.....	Wirming, Robert.....	Sato.....
Wheelhouse, Samuel D.....	Rushville.....	Wisley, H. C.....	Vergennes.....
White, Charles F.....	Danville.....	Wiseman, Ernst.....	Peoria.....
White, Charles.....	Wyoming.....	Wonderling, Henry.....	Danville.....
White, M. C.....	Pawnee.....	Wood, Benjamin.....	Pinckneyville.....
White, Henry.....	Elmwood.....	Woodcock, Wm. H.....	Etherly.....
White, Wm. J.....	Bartonville.....	Wood, Sam'l.....	Saline Mines.....
White, John A.....	Frederick.....	Woodbury, John.....	Green River.....
Whynn, Wm. E.....	Coal Valley.....	Woods, James.....	St. David.....
Wilkinson, M. C.....	Danville.....	Woodard, John.....	Oakwood.....
Wilcock, Wilson.....	Astoria.....	Woodward, W.....	Soperville.....
Williams, Joseph.....	Mode.....	Wonders, Henry.....	Streator.....
Williamson, Andrew.....	N. Alton.....	Worthington, H.....	do.....
Williams, James F.....	Kewanee.....	Wren, T. K.....	Morris.....
Williams, Jerome.....	Tiskilwa.....	Wright, Joseph.....	Fairbury.....
Williams, Joseph.....	Preemption.....		
Williams, W. J.....	Colchester.....		
Williams, W. P.....	Laoc.....	Yerman, Timothy.....	Cuba.....
Willis, Alex.....	Oraville.....	Young, John A.....	Carterville.....
Wilson, George.....	West Jersey.....	Young, S. J.....	Griffin.....
Wilson, John.....	Colchester.....		
Wilson, A. E.....	Macomb.....		
Wilson, Thomas E.....	Blandinsville.....	Zink, G. W.....	Peoria.....
Wilson, Joseph.....	Swan Creek.....		

HOISTING ENGINEERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE—This list includes all the hoisting engineers to whom certificates have been issued prior to Jan. 1, 1904.

Name.	Postoffice.	Name.	Postoffice.
Abcock, C. F.	Nilwood	Bateman, Harry	Murphysboro
Ablen, Henry	Breese	Bateman, R.	Murphysboro
Adams, Nelson	Lincoln	Bates, Thomas W.	Winchester
Adams, Wm. H.	Braidwood	Bath, Ameston	Cuba
Ainsworth, Samuel, Jr.	Taylorville	Baumgartner, Geo. J.	Edwardsville
Aitken, T. G.	Tilden	Beard, Charles A.	Streator
Alexander, Henry	Oglesby	Beatty, James H.	Mascoutah
Alexander, W. A.	Roseboro	Beatty, Nepha	do
Allen, David	Collinsville	Becker, Fritz	Mt Olive
Allen, C. E.	Troy	Becker, F. M.	Sandoval
Allen, C. H.	Seneca	Behrend, A. D.	Springfield
Allgood, William	Springfield	Beeby, William	do
Altman, H. P.	Collinsville	Beese, John E., Jr.	Belleville
Altman, Henry	Lincoln	Bell, Chris.	Sherrard
Anderson, J. F.	Pinckneyville	Bell, Mark	Danville
Anderson, W. C.	Elmwood	Bell, Frank	Tallula
Anderson, Norman A.	Princeville	Belts, Joseph E.	Belleville
Anderson, Z. B.	Sparta	Beltz, A.	Equality
Anderson, Chas. E.	Belleville	Bennight, J. E.	Pawnee
Andrews, Solomon	Girard	Bently, George	Springfield
Anthony, John C.	Belleville	Benvenuto, Charles	Dawson
Appleby, John	East Peoria	Berkley, N. T.	Cuba
Appleton, Thomas	Virden	Bertin, Henry	Pana
Archer, Joseph	Barclay	Bienert, J. O.	Spaulding
Archibald, David	Freeburg	Bigelow, A. E.	do
Armstrong, Martin	Duncan	Biggs, W. A.	Herrin
Armstrong, C.	Muncie	Blake, Albert	Streator
Armstrong, William C.	Marion	Blackman, Ben.	Dawson
Ashman, Joseph	Murphysboro	Blalock, Charles F.	Niantic
Atkin, Robert R.	Tilden	Blair, George	Streator
Atwater, Stephen	Clarke City	Blue, Jessie	Norris
Averill, C. P.	Colchester	Black, Jas. A.	Troy
Avery, William	Lenz Station	Blomberg, Albert	Sherrard
Ax, Henry	Edwardsville	Billips, Joseph M.	Kewanee
Bailey, James F.	Westville	Boden J.	Gilchrist
Balwir, John	Braidwood	Boettcher, Alfred	Freeburg
Balwir, Robt.	Sunfield	Boggs, Dow J.	Kewanee
Baird, Robert	Sparta	Boggs, E. W.	Galva
Baker, Darius N.	Spillertown	Boggs, G. W.	Galva
Baker, F.	Springfield	Bohlen, Henry E.	Mt Olive
Baker, James E.	Westville	Bohlender, Edward	Pekin
Baker, C. H.	Fairmount	Bolton, Mark	Gilchrist
Balser, Henry	Springfield	Bookstaver, Jos.	DuQuoin
Balsmith, Edward	Assumption	Bonstead, W. P.	Coal City
Barnhill, H. G.	Kinmundy	Boots, James Franklin	Germantown
Barnhill, Oscar B.	Herrin	Boring, Frank L.	Odin
Barber, C. E.	DuQuoin	Bostin, William H.	Murphysboro
Barber, C. W.	do	Boswell, William	Dunfermline
Barber, William G.	Tilden	Bolles, Wm.	Auburn
Barr, Frank	Centralia	Bottomley, B.	Patsley
Barton, C. W.	Cable	Boul, Leonard	Belleville
Barton, Charles W.	Fairmount	Bradbury, R. D.	Carbondale
		Bradenburg, F.	Belleville

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Bradley, Simon	Edwardsville....	Clark, John R.	Virden.....
Brants, E. G.	Pekin.....	Clark, John.....	do.....
Bradley, Wm. P.	Virden.....	Clark, Quintin.....	Braidwood.....
Brasel, S. R.	Centralia.....	Claudin, Josh.....	Pekin.....
Bretz, Anton	Germantown.....	Clayton, William.....	Collinsville.....
Bretz, Matt.....	Belleville.....	Chickner, C. S.....	Witt.....
Bromley, Charles.....	Coal City.....	Clifford, Michael.....	Kewanee.....
Bromley, George, Sr.	Catlin.....	Clifton, William H.....	Sparland.....
Bromley, George, Jr.	Kellyville.....	Cline, John.....	LaSalle.....
Broughton, Geo. C.	Coffeen.....	Coatney, Grant.....	Fairmount.....
Brown, George A.	Iles Junction.....	Coburn, W. A.....	Princeville.....
Brown, H. L.	DuQuoin.....	Collinton, Chas.....	Belleville.....
Brown, James A.	Springfield.....	Collingwood, Wm.....	Greenview.....
Brown, Thomas.....	Moweaqua.....	Collingwood, Albert E.....	Springfield.....
Brown, Wm. F.	Pontiac.....	Collins, Walter.....	Mt. Vernon.....
Brown, Wm. H.	DuQuoin.....	Collins, John.....	Birkner.....
Brown, Edward E.	Sparta.....	Colton, George C.....	Cartersville.....
Brubeck, John W.	Pawnee.....	Colwell, W. P.....	Canton.....
Brueggemann, Michael A.	Belleville.....	Compton, James.....	Coifax.....
Bruggeman, Geo.	Nashville.....	Compton, Stephen B.....	Sorento.....
Bruce, James.....	Athens.....	Conley, John.....	Streator.....
Buckley, Calvin W.	Sparland.....	Connelly, J. J.....	Murphysboro.....
Burbridge, J. W.	Brereton.....	Conway, John.....	Collinsville.....
Burgess, Charles E.	Greenview.....	Conway, Michael.....	Ladd.....
Burke, Riley M.	DeSoto.....	Cook, G. E.....	Hallidayboro.....
Burlinson, Aaron.....	Percy.....	Cook, Wm. D.....	Westville.....
Burr, Chauncey.....	Coulterville.....	Cooper, J. H.....	Nilwood.....
Bullock, William.....	Collinsville.....	Cornelius, Richard.....	Fairmount.....
Bumgarner, Ross.....	Ledford.....	Cottle, Elmer.....	Buffalo.....
Burrell, G. K.	Farmington.....	Cotton, George.....	Hallidayboro.....
Burrows, William.....	Williamsville.....	Cox, John.....	Ledford.....
Butcher, Thomas.....	Murphysboro.....	Cox, William.....	Rutland.....
Butt, Thomas R.	Litchfield.....	Craddock, Robert.....	Auburn.....
Byrne, Michael.....	LaSalle.....	Craft, George.....	Kangley.....
		Craig, Daniel G.....	Danville.....
		Craig, Daniel.....	do.....
Cagle, Alfred.....	Marion.....	Crenshaw, D. B.....	Harrisburg.....
Cain, Daniel.....	Ridgely.....	Crenshaw, J.....	Marion.....
Cain, Daniel P.	do.....	Crinigan, Barney.....	LaSalle.....
Cain, John.....	do.....	Crocker, Edward.....	Marquette.....
Calear, Isaac.....	Pottstown.....	Crouch, Millard F.....	Nilwood.....
Cameron, Daniel.....	Pana.....	Cryder, James F.....	Divernon.....
Camp, John R.	Westville.....	Cruikshanks, Robert.....	Middle Grove.....
Campbell, A.	Peoria.....	Cruikshanks, John.....	East Peoria.....
Campbell, Fred.....	Sorento.....	do.....	do.....
Campbell, T.	Coal City.....	Cruikshanks, William A.	Taylorville.....
Campbell, W. J.	do.....	Cruthers, Zina B.....	Pana.....
Cantrell, H. T.	Farmington.....	Cummings, George.....	Gardner.....
Carlson, Alexander.....	Galva.....	Cumming, Geo. A. P.....	Sparland.....
Carmichael, Thos.	Springfield.....	Cumming, Geo. P.....	Sparta.....
Carpenter, Chas.	Girard.....	Cummings, Robert W.....	Princeville.....
Carr, Robert H.	Freeburg.....	Cutler, Frank H.....	DuQuoin.....
Carrington, Eugene.....	Moweaqua.....	Cutler, Scott.....	do.....
Carsell, Hugh.....	do.....		
Carter, Albert J.	Cutler.....	Daenzer, Anton.....	Glen Carbon.....
Carter, W. E.	Barclay.....	Dalhour, Frank C.....	Staunton.....
Caudle, James F.	Sorento.....	Dalton, Isam.....	Yates City.....
Caulk, Arthur.....	do.....	Daly, Thomas.....	Diamond.....
Cearling, Samuel A.	Springfield.....	Dana, John W.....	Springfield.....
Chapman, J. B.	Petersburg.....	Daniel, James.....	Belleville.....
Chapman, William E.	Salisbury.....	Daniels, Joel.....	do.....
Charpenier, Joseph.....	Braidwood.....	Dankins, Thos. J.....	Braceville.....
Chesney, O.	Breese.....	Darmstadter, William.....	New Athens.....
Chester, David.....	Springfield.....	Dave, R. J.....	Glen Carbon.....
Chew, Oliver.....	Sato.....	Davenport, Thomas.....	Harrisburg.....
Chew, B. R.	Carlinville.....	Davis, B. D.....	Coffeen.....
Chitwood, William H.	Catlin.....	Davis, Carl.....	St. John.....
Chorlton, Thomas.....	Birkner.....	Davis, C. E.....	Divernon.....
Church, Van L.	DuQuoin.....	Davis, Frank.....	St. John.....
Church, William.....	Marissa.....	Davis, Jas. A.....	Hillsboro.....
Christ, Phillip.....	Wenona.....	Davis, Chas. W.....	Edinburg.....
Clark, Corey.....	Coal City.....	Davis, Jackson.....	Athens.....
Clark, Christopher.....	Decatur.....	Davis, E. E.....	Anburn.....
Clark, C. N.	DuQuoin.....	Davis, Frank.....	Lincoln.....
Clark, John.....	Marquette.....	Davis, Harry J.....	DuQuoin.....

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Davis, James P.	Belleville	English, Thomas	Streator
Davis, John W.	Lake Creek	Erisman, Jacob D.	Niantic
Davis, John	Belleville	Erisman, Jesse	do
Davis, L. D.	Coffeen	Estes, W. B.	Danville
Davis, Thomas	Belleville	Evans, Albert	Glen Carbon
Davison, John G.	St. John	Evans, Roderick B.	Girard
Davison, Joseph	Sherrard	Evans, Thomas	Spaulding
Dawson, Van C.	Spring Valley	Evans, C. L.	Virden
Dawson, John C.	Streator	Evans, Price	Bissell
Day, Benj. F.	Peoria	Evans, W. E.	Danville
Deans, Robert	Belleville	Eytman, Frank	Spring Valley
Deaton, L. B.	Tallula	Eydman, Henry	Coulterville
Deaton, William S.	Greenview		
DeBacher, Thomas	Elmwood		
Decker, William	Oglesby	Fabry, A.	Braceville
Dee, Henry	Glen Carbon	Fahay, John	Decatur
DeJarnett, Thomas	Mt. Vernon	Falkenstein, George A.	Astoria
Delmore, Frank	Springfield	Farmer, Frank	Bloomington
Delapp, Robert E.	Willisville	Farley, James	Riverton
Delorey, William	Westville	Farwood, L. C.	Springfield
Dent, William	Diamond	Fenton, M. H.	Streator
Derrington, Walter	Herrin	Ferguson, J. B.	Divernon
Denten, O. N.	Coffeen	Ferguson, John J.	Spring Valley
Denton, William	Petersburg	Ferren, Edward	Barclay
Devlin, Francis	Clark City	Ferris, W. H.	Marquette
Dick, Robert	Sunfield	Fillingham, J. A.	Canton
Dillon, John	Auburn	Finnigan, Thomas J.	Springfield
Dillon, William	do	Finegan, Wm. H.	do
Dixon, Frederick W.	Springfield	Fischer, Phillip	Lenzburg
Dixon, George	Wenona	Fisher, George	Staunton
Dodd, Samuel H.	Pottstown	Fisher, Patrick	Kangley
Dodwell, Edward J.	Decatur	Fitzsimmons, Maurice	Peru
Doolin, E. W.	Pontiac	Flesher, A.	Taylorville
Dochring, Fred	Mt. Olive	Flesher, O.	Clay City
Douck, John	LaSalle	Fletcher, Henry A.	Ladd
Donaldson, J. W., Jr.	Dunfermline	Fletcher, I. W.	Springfield
Donnelly, J.	Springfield	Fogerson, Andrew	Central City
Doolin, E. J.	Pontiac	Foote, Charles	Westville
Dougherty, Joseph	Taylorville	Foote, Wm.	do
Dove, C. W.	Glen Carbon	Forlister, Robert	Murphysboro
Dowler, John	Auburn	Forister, Wm.	do
Dowling, Ira F.	Springfield	Fortney, John W.	Kinmundy
Downing, Robert D.	Bartonville	Foster, Albert	Elmwood
Drischel, Fred W.	Taylorville	Foster, A. J.	Litchfield
Drake, William	Streator	Fox, Frank L.	Assumption
Dray, John	Troy	Fox, Fred	Middle Grove
Drennon, L. H.	Blue Mound	Fox, Wm.	Taylorville
Duffy, Glenn E.	Collinsville	Fox, James B.	LaSalle
Dugg, B. A.	do	Fox, Thomas	Lincoln
Duncan, J. R.	LaSalle	Frahn, Austin	Ridge Prairie
Dunn, L. A.	DuQuoin	Frankland, Tim	Streator
Dunn, William L.	Clark City	Freeman, M. F.	Shelbyville
Dunsmore, Thomas	Springfield	Freeman, E. F.	DuQuoin
Dunstedler, William S.	Edwardsville	Frick, U. B.	Lake Creek
Durham, James D.	Lake Creek	Friend, J. W.	Collinsville
Dyer, Harry	DuQuoin	Frier, Jacob	Ormsby
		Friend, E. A.	Collinsville
		Friend, Wm. L.	do
Easley, H.	Taylorville	Friesland, C. M.	Salisbury
Eaton, A. C.	DuQuoin	Fritz, Gustav	Brees
Easton, George	Willisville	Fry, D. W.	Clark City
Eccleston, John	Streator	Ferguson, S. P.	Strasburg
Eddy, Evermont	Athens	Fusten, D. H.	Murphysboro
Eastham, G. A.	Girard		
Edwards, George W.	Springfield		
Elliott, Clarence	Bryant	Gahl, Fred T.	St. John
Elliott, H. H.	Centralia	Galutia, C. M.	Cartersville
Edwards, Thomas	Spring Valley	Gomber, H. H.	Ziegler
Ekins, Daniel B.	Springfield	Gandy, James W.	Peoria
Ekins, Henry	Ridgely	Gaskins, Asa	Harriaburg
Emans, Ransom R.	Farmington	Gately, Bernard	Diamond
Ellis, Albert	Cable	Gately, James	Seatonville
Elmendorf, E.	Belleville	Gasnell, George W.	Herrin
Elmore, V. M.	Coffeen	Gates, Wm. S.	Kankakee
Emery, H. W.	Greenville	Gallagher, Peter	Clark City

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Gaughan, James	Braidwood	Hackett, Owen	Spaulding
Geer, Benjamin H.	Wolcott	Haddick, Wm. L.	Sherrard
Geer, U. S.	Pekin	Haensel, Edward	Lenzburg
Geer, Chauncy N.	Wolcott	Haensel, David	do
Galmour, Allan	Diamond	Hagler, Charles	Fredonia
Gerner, Fred	Danville	Hale, Wm. T.	Troy
Gerjett, Harry	Athens	Hale, James	Dunfermline
Geyer, J. A.	Wanlock	Haley, Edward	Kilmundy
Gibson, John	Sandoval	Hall, G. R.	Colchester
Gibson, J. W.	Sherrard	Hall, G. R.	Canon
Gibson, Henry	Coal City	Hamilton, Chas. E.	Sparland
Gilmore, J. E.	Hillsboro	Hamilton, James H.	Murphysboro
Gilson, R. W.	Danville	Hampton, N. K.	Peoria
Girfen, Henry	Troy	Hand, P. L.	Collinsville
Glacken, Hugh	Coal City	Hanvey, John	Taylorville
Gladders, Wm.	do	Handle, Ledlie	Willisville
Gladson, E.	DuQuoin	Hanenstein, J. W.	Salem
Gladson, F.	do	Hanes, W. J.	Sorento
Glass, Reuben	Edwardsville	Hankins, John W.	O'Fallon
Glennon, Phillip	Williamsville	Hanson, William	Collinsville
Glennon, John	Riverton	Hanvey, John J.	do
Goalby, Arthur A.	Percy	Hanvey, Robert	do
Goalby, B. F.	do	Hanvey, William	Cable
Goalby, Frank H.	Stookey	Haddicks, Frederick H.	Edwardsville
Goalby, W. A.	Belleville	Happer, Frank	Birdner
Goddard, Wm. H.	Spillertown	Harding, Enos	Petersburg
Goddard, W. L.	Lake Creek	Harms, Heike	Lebanon
Goforth, Wm.	Pana	Harper, Oscar	Springfield
Gollher, H.	Herrin	Hardy, Thomas	Dawson
Gordon, E. J.	Petersburg	Hardy, Thos. W.	Oglesby
Gordon, Alex. B.	O'Fallon	Harmon, M. W.	Decatur
Gorman, J.	Lincoln	Harner, Elmer	Springfield
Gottschalk, Fred	Springfield	Harris, J. W.	Nilwood
Gould, George	Sato	Harris, W. C.	Murphysboro
Gowin, Curtis	Green Ridge	Hartman, Frank	do
Gowin, Frank	do	Hartman, John F.	Marion
Grace, John T.	Kewanee	Hartwell, A. Lincoln	do
Graham, L. A.	Bloomington	Hartwell, J.	do
Graham, William	Springfield	Hartwell, Roy	DuQuoin
Graden, Orville B.	Taylorville	Harvey, M. F.	Coulterville
Graham, Reuben	Virden	Hartman, W. H.	Wanlock
Grant, Lewis	Pekin	Harvey, Wm. R.	French Village
Gray, Thomas	Springfield	Havel, Joseph	Pana
Gray, Chas. H.	do	Hawker, J. O.	Sandoval
Greaves, Walter	Ladd	Haworth, William	Danville
Green, Joseph	Canon	Hayes, Arthur H.	Bloomington
Green, Daniel	Braidwood	Hayes, James	Murphysboro
Green, Roy	Wilmingon	Hayler, George L.	Assumption
Green, R. A.	Coffeen	Head, John S.	Mt. Olive
Green, Thomas	Marissa	Heidinger, F. C.	O'Fallon
Green, Wm. H.	Streator	Hendrick, C. W.	Wanlock
Greenhalgh, James	Hillsboro	Hennegan, John F.	Kewanee
Greenhalgh, William	do	Henry, Philip	Belleville
Greenman, Martin	Pontiac	Heppard, George	Edwardsville
Greener, George	Greenview	Herder, Walter	Belleville
Grierson, John	Streator	Herman, John	Odin
Grimmett, Chas. C.	Girard	Herring, George P.	Staunton
Grice, Albert	Kewanee	Herring, J. P.	Abingdon
Grieves, David	Birkner	Hershaw, A. F.	Ridgely
Grieves, James	do	Heskitt, John	Morrisonville
Griffin, John O.	Kewanee	Hess, Edward B.	Wyoming
Groom, Alexander	Belleville	Higbee, Lawrence	St. David
Groom, John, Sr.	do	Hillard, James	Dunfermline
Groom, James	do	Hillery, John	Marissa
Groom, William	do	Hill, C. C.	Pontiac
Groom, John	do	Hill, C. W.	Westville
Groover, Harmon M.	Canon	Hill, Emberson	Astoria
Grubb, Michael	Riverton	Hilmes, Henry	Toluca
Geistdorfer, Fred	DeSoto	Hines, P.	Herrin
Guy, D. F.	Springfield	Hindman, Mlo.	Centralla
Gurick, Howard	Litchfield	Hobbs, Francis E.	Murphysboro
Gurick, L. E.	do	Hodgson, Edward	Smithboro
		Hodson, Moses	

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Hoecker, Charles.....	Glen Carbon	Kalebaugh, Clinton H.....	Astoria
Hogan, Frank.....	Springfield	Karney, Emory O	Hallidayboro.....
Holland, Arthur J.....	Mt. Olive.....	Keating, Edward F.....	Streator
Holland, Miner.....	Cartersville	Keating, Richard.....	do
Holtkamp, Geo.....	Breese.....	Kelley, James D.....	Carbon Hill
Hooper, George.....	Glen Carbon	Kelly, Martin	Toluca.....
Hooper, H. H.....	Gillespie.....	Kelley, Robert D	Carbon Hill
Hopper, G.....	Glen Carbon	Kelly, Chas.....	Streator
Hopper, Shelby.....	Catlin.....	Kelly, N.....	Petersburg.....
Horton, William T.....	Hornsby.....	Kelly, Richard V.....	Cantral
Hord, Alvin.....	Taylorville.....	Kemper, Christian	Belleville.....
Hottinger, J.....	Freeburg.....	Kenady, Fred A.....	Cambridge.....
House, C. O.....	St. John	Kennedy, W. J.....	Edwardsville.....
Howe, Chas.....	Streator	Kearney, John.....	Peoria.....
Hubbard, G. W.....	Springfield	Kerchner, Howard.....	Belleville.....
Huff, L.....	Canton	Kerchner, John.....	do
Huggans, R. D.....	Streator	Kerns, Samuel J.....	Springfield.....
Huggins, William.....	Murphysboro	Kessick, Chas. W.....	Decatur
Huggins, J. A.....	Streator	Kidd, Aionzo.....	Fairmount
Hughes, William A.....	Springfield	Kilbride, T. C.....	Farmington
Hughes, John C.....	do	Killinger, C.....	Collinsville
Hull, Lee.....	Murphysboro	Killinger, Harry.....	Germantown.....
Humphrey, Chas.....	Edinburg.....	Killinger, John.....	Collinsville
Humphrey, W. F.....	do	Kimball, Joel L.....	Hillsboro.....
		Kimber, John.....	Ladd
Isom, Wm.....	DuQuoin	King, John.....	Cartersville
Ing, George M.....	Marion.....	Kingerfus, Wm.....	Belleville.....
Ingles, Orie W.....	Glen Carbon	Kingham, John.....	Staunton.....
Irwin, Byron.....	Pana.....	King, Alexander, Sr.....	Cartersville
Irwin, John.....	Gillespie.....	King, Alexander, Jr.....	do
Irwin, Robert K.....	Pontiac	King, L. B.....	Smithboro.....
Isadore, George.....	Roseboro.....	Kirby, Thomas, Jr.....	Peru.....
Isadore, Charles.....	Sparta.....	Kirshner, Frank.....	Belleville.....
		Klaus, Louis.....	do
		Klingenfus, Edward.....	do
		Klinkner, Frank.....	Colfax.....
Jackson, William.....	Minonk.....	Knapp, Enoch.....	Assumption.....
Jacobs, George R.....	Elmwood.....	Koombs, James.....	Marion.....
Jacobs, James M.....	Moweaqua.....	Krully, Andrew.....	Braceville.....
Jacobs, J. P.....	Bartonville.....		
Jacobs, William.....	Murphysboro	Lambert, George W.....	LaSalle.....
Jacobs, W. Sr.....	Peoria.....	Lambert, Wm.....	Middletown.....
Jamison, John.....	Petersburg.....	Lanham, John W.....	Danville.....
Jeffrey, James.....	Marissa.....	Larkin, James G.....	Athens.....
Jeffrey, John.....	Belleville.....	Laughrey, Jonathan P.....	Carbon Cliff.....
Jenkins, John L.....	Danville.....	Lavallier, U. S.....	Chenoa.....
Jenkins, T. E.....	Athens.....	Lawson, George.....	Cable.....
Jenks, William.....	Bloomington	Layne, J. W.....	DeSoto.....
Johnson, James J.....	Taylorville.....	Leadbitter, George.....	Sorento.....
Johnson, John W.....	Birkner.....	Leek, Carroll.....	Hallidayboro.....
Johnson, J. S.....	DuQuoin	Leeper, C. W.....	Equality.....
Johnson, Robert.....	Pawnee.....	Lehman, Philip.....	Lebanon.....
Johnson, S.....	St. John	Lemons, J. L.....	Girard.....
Johnson, W. C.....	Marion.....	Leslie, G. Lutton.....	Rutland.....
Johnson, William H.....	Superville.....	Leslie, George.....	Gardner.....
Johnson, William L.....	Spring Valley.....	Leslie, N. B.....	Braidwood.....
Johnston, Joseph R.....	Pontiac	Lewis, Alvin.....	Catlin.....
Johnstone, Thomas.....	do	Lindsay, J.....	Oglesby.....
Johnston, Thomas B.....	Freeburg.....	Lindskey, Martin H.....	Streator
Jones, George.....	Belleville.....	Lindstrom, Oscar.....	Sherrard.....
Jones, Henry E.....	Staunton	Linsky, James.....	Braidwood.....
Jones, John P.....	Marissa.....	Linsky, Patrick J.....	do
Jones, Jonathan, Jr.....	do	Little, G. E.....	Edwardsville.....
Jones, Vernal L.....	Barclay.....	Little, Peter.....	Peoria.....
Jones, Jonathan Sr.....	Marissa.....	Little, Thomas.....	Murphysboro.....
Jones, Joseph.....	Staunton	Lockhart, Lewis.....	Niantic.....
Jones, Logan.....	Marissa.....	Lockie, G. O.....	Cartersville.....
Jones, Felix E.....	Barclay.....	Lockie, William.....	do
Jones, Thomas.....	Muncie.....	Loding, Chas. A.....	Loding.....
Jones, William.....	Marissa.....	Loebel, Frank.....	Trenton.....
Jones, William.....	Braceville.....	Loeffler, Adolph E.....	O'Fallon.....
Jones, John.....	Grape Creek.....	Long, Noah B.....	Pontiac.....
Jones, James W.....	Pana.....	Lozin, P.....	Lincoln.....
Jones, John.....	Marissa.....	Lucht, M. F.....	Mt. Olive.....
Jordan, Robert.....	Streator	Lucey, Michael.....	Ridgely.....
Judd, Charles E.....	Edwardsville		

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Lundeen, Frank W.	Galva	Miller, James	Alma
Lundy, J. P.	Mt. Pulaski	Miller, T. H.	Raymond
Lundley, Ralph	Ridge Prairie	Miller, William C.	Rentchler
Lynch, M.	Herrin	Mill, Thomas S.	Coal City
Lyons, A.	Riverton	Minzer, Robert A.	Spaulding
		Mitchell, E. R.	Farmington
		Mize, Walter	Pana
Maasburg, H. C.	Pinckneyville	Mockbee, Luther	Niantic
Mader, Charles H.	Stanton	Mohm, E.	Peoria
Manley, Leo	Coffeen	Morehouse, Charles L.	Danville
Malnwarling, James	Braceville	Moffat, R. E.	Culler
Malr, Max	Lebanon	McFatt, John	So. Wilmington
Malcolm, Wm. J.	Braceville	Molash, A.	Springfield
Maltby, Edward	Braldwood	Monaghan, James	Gillespie
McAddams, John W.	Percy	Moor, F. J. W.	Springfield
McAllister, Thomas	Halldayboro	Moore, A.	Braceville
McCann, David	Lincoln	Morch, John	Belleville
McCartney, C. F.	Alexis	Morgan, John C.	Springfield
McCauley, Aaron	Streator	Morgan, William	Carbon Hill
McConachie, Ed.	Auburn	Morris, A.	DuQuoin
McCormack, James J.	Springfield	Morris, J.	Springfield
McCulley, G. L.	Pawnee	Morris, John W.	Divernon
McCusky, Tobias	Assumption	Morris, George	Belleville
McCurdy, J.	Taylorville	Morris, James H.	Nashville
McDonald, John	Springfield	Morris, James	Mt. Olive
McDonald, W. H.	Pana	Morris, William	do
McDonald, William J.	Percy	Morris, Wm.	Harrisburg
McDonald, Peter G.	Carbon Hill	Morrissey, Thomas	Lebanon
McFarland, F. E.	Murphysboro	Morrison, Archie	Oglesby
McGittigan, Thomas	Pana	Moser, Jacob W.	Rentchler
McGowan, Edward	Lincoln	Mulvaney, Christopher	Edwards
McGowan, J. R.	Herrins Prairie	Mulvaney, A. T.	Glenburn
McIntyre, A. D.	Sparta	Muren, Alfred L.	Belleville
McKean, Andrew	Coal City	Muren, Joseph L.	do
McKean, John	Carbon Hill	Murphy, Robert T.	Norris
McKean, Isaac	Coal City	Murphy, Edward	Farmington
McKearnan, J. B.	Athens	Murphy, James F.	Springfield
McKee, C. L.	Lake Creek	Murrie, Archie	Trenton
McKeerman, John	Belleville	Murray, Robert	Coal City
McLaughlin, F. T.	Carbon Hill	Murray, Christopher C.	Gillespie
McLaughlin, George	do	Murray, Hugh	Nashville
McLean, J.	Pleasant Plains	Murray, Joseph P.	Rosboro
McMillin, W. M.	Danville	Myers, Henry	Minok
McMurtry, P.	Virden	Myers, Peter W.	Carlinville
McNail, Albert	Mt. Vernon		
McPherson, James	Murphysboro	Nagle, Jake	Springfield
McQuade, J.	Clark City	Neal, Ambrose	Carlinville
McNeil, S.	Coulterville	Neil, John H.	Cartersville
McVey, Frank W.	Roanoke	Needham, Daniel	Breese
McVicar, Donald	LaSalle	Negley, Ollie K.	Norris
Marland, James	Wenona	Neilson, James W.	Sparta
Marland, William	Spartan	Nelson, Andrew V.	Centralla
Marshall, Robert	Murphysboro	Nentzel, Fred H.	Caseyville
Martin, Benjamin	Toluca	Newal, Leroy	Spartan
Martin, N. W.	Marion	Nevenor, James	Belleville
Marxer, Louis J.	Milstadt	Nichols, John	Athens
Masse, J. T.	Belleville	Nickerson, James K.	Colfax
Mason, E.	Winchester	Nicol, William	Belleville
Mathis, George	DuQuoin	Nicol, Adolph	do
Matthews, C.	Willsville	Norborg, Peter	Galva
Maule, William	Belleville	Norborn, Frank	do
Maxwell, Fred	Peoria	Norris, James J.	Murphysboro
Mayor, A. W.	DuQuoin	Norris, Floyd	DuQuoin
Mayor, J. W.	do	Norton, William	Oglesby
Meadows, William	Ledford	Nordfeet, Thomas M.	Springfield
Meachels, Edward	Belleville		
Melvin, Elmer	Tamaroa	O'Brien, Terry	Decatur
Meng, George W.	Freeburg	O'Donnell, Michael	do
Mercer, L. W.	St. John	Ogden, William	Rentchler
Messersmith, Fred	Athens	Ogden, Samuel	Mascoutah
Messenger, Joseph	Williamsville	Olinger, J.	Odin
Meyer, Henry	Trenton	Olson, August	Streator
Michaels, Otto L.	Belleville	O'Neal, James	do
Miller, A. J. F.	Centralla		
Miller, Hugh	Braceville		

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Ople, Frederick.....	Mt. Olive.....	Razor, J. D.....	Staunton.....
O'Riley, Wilber.....	Grape Creek.....	Rasch, Aug. F.....	Trenton.....
Ord, S. R.....	Mt. Vernon.....	Ratliffe, A.....	Sheffield.....
Ormiston R.....	Danville.....	Rawson, Grant I.....	Belleville.....
Osborne, Benjamin.....	Streator.....	Rawlings, Alex N.....	Cantrall.....
Osburn, Glen L.....	do.....	Ray, Hugh.....	Wanlock.....
Otte, John.....	Collinsville.....	Reagan, William.....	Mt. Olive.....
Outhouse, John.....	Johnson City.....	Reatz, Hans.....	Lincoln.....
		Reading, Curtis.....	Niantic.....
		Record, L. A.....	Rutland.....
Paddock, W. D.....	Pana.....	Reed, John.....	Herrin.....
Padden, J. W.....	Spring Valley.....	Reed, W. J.....	Danville.....
Parks, James.....	Streator.....	Reetz, Herman.....	Lincoln.....
Parker, Joseph.....	Murphysboro.....	Reeger, John C.....	Pinckneyville.....
Patterson, R. J.....	do.....	Reese, William M.....	Roanoke.....
Patterson, T.....	Gillespie.....	Reid, Robert.....	Moweaqua.....
Patterson, W. M.....	St. Louis, Mo.....	Reid, Archibald.....	Springfield.....
Pankey, James M.....	Equality.....	Reid Andrew B.....	DuQuoin.....
Patton, Frank L.....	Springfield.....	Reiddinger, Peter M.....	Peoria.....
Pearce, H. L.....	Cable.....	Reidberger, Wm. J.....	Dubois.....
Peecher, David.....	Braidwood.....	Reilly, Henry.....	Toluca.....
Peet, Chas.....	Marselles.....	Reimann, John.....	Belleville.....
Pemberton, C. H.....	DuQuoin.....	Remellus, Jacob.....	O'Fallon.....
Perkes, Ephraim.....	Soperville.....	Rennard, Jas. Ed.....	Grape Creek.....
Petrea, J. W.....	Vandercook.....	Reichman, George.....	Trenton.....
Peters, Alonzo L.....	Peoria.....	Renni, Andrew.....	Dunfermline.....
Petro, Mike.....	Braceville.....	Rennie, James.....	do.....
Pendergast, John.....	Centralla.....	Renter, August.....	Mt. Olive.....
Perrins, George H.....	Herrin.....	Repplinger, H.....	Belleville.....
Peylla, George.....	Braidwood.....	Reyabek, Joseph.....	Glen Carbon.....
Pierson, Chas.....	Harrisburg.....	Rhodes, Almon R.....	Chenoa.....
Pierson, Jos.....	do.....	Rhoades, Ashley.....	Taylorville.....
Pierson, Thomas.....	do.....	Rice, C. D.....	Harrisburg.....
Phillips, J. M.....	Athens.....	Rice, James M.....	Sunfield.....
Pinkerton, John G.....	Hanna City.....	Rice, Moses.....	Murphysboro.....
Piper, James.....	Worden.....	Richards, John T.....	Staunton.....
Piper, Oliver G.....	Staunton.....	Richart, Lee.....	Moweaqua.....
Piper, Joseph.....	Glen Carbon.....	Richmond, John E.....	Coal City.....
Pircher, Peter P.....	Sandoval.....	Riley, B. J.....	Cantrall.....
Pitra, Frank.....	Odin.....	Riley, Michael.....	Grape Creek.....
Pitt, Joseph.....	Trenton.....	Ripplitoe, J. G.....	Colchester.....
Platt, J. A.....	Springfield.....	Ritchie, John.....	Trenton.....
Plenty, Geo. R.....	Canton.....	Roach, Samuel.....	Tamaroa.....
Plimmer, Benjamin.....	Streator.....	Roberts, Charles.....	LaSalle.....
Plocker, Henry.....	Pana.....	Roberts, Edward J.....	Kangley.....
Pointer, Edward H.....	Belleville.....	Roberts, Frank L.....	Lake Creek.....
Poole, Edward A.....	Lake Creek.....	Roberts, John.....	Litchfield.....
Powell, Edwin.....	Caseyville.....	Roberts, Jonathan.....	Willisville.....
Powell, F. C.....	Seatonville.....	Robinson, Charles.....	Wenona.....
Prescott, G. A.....	Centralla.....	Robinson, J. A.....	Riverton.....
Price, Thomas.....	Spaulding.....	Robinson, William A.....	Toluca.....
Price, Daniel D.....	Redlch.....	Rockey, Charles.....	Peoria.....
Prickett, Thomas M.....	Niantic.....	Rodgers, Edward.....	Murphysboro.....
Pritchard, H. C.....	Lewistown.....	Rogers, Geo. R.....	Sunfield.....
Pugh, Daniel.....	St. John.....	Rodgers, Fimmel.....	Murphysboro.....
Pullen, R. H.....	Sorento.....	Rode, Henry.....	Sherrard.....
Pulver, R. H.....	Centralla.....	Rohe, Herman J.....	Alexis.....
		Rohour, Michael.....	Grape Creek.....
		Rosan, Ben.....	DuQuoin.....
Qualls, Nevall.....	Dubois.....	Rowland, Samuel J.....	Duvernoon.....
Quick, A. T.....	Sato.....	Rowland, Sidney G.....	Belleville.....
Quick, A. S. H.....	do.....	Roy, A. L.....	Collinsville.....
Quick, Selbert T.....	Pinckneyville.....	Royster, Richard.....	Peoria.....
Quigley, Henry.....	Halidayboro.....	Rude, Edmund.....	DeSoto.....
Quinn, Joseph.....	Springfield.....	Russell, Zenas.....	Pana.....
		Rutliff, Isaac.....	Ashland.....
		Ryan, Lawrence.....	Decatur.....
Raber, F. C.....	Troy.....		
Raber, Louis.....	Collinsville.....	Sadler, George.....	Murphysboro.....
Radford, William T.....	Bloomington.....	Sallade, George.....	Chatham.....
Rafter, Michael.....	Marquette.....	Sallade, J. E.....	do.....
Rafter, James P.....	Spring Valley.....	Sands, Robert K.....	Marissa.....
Raisbeck, John.....	Braceville.....	Sangrelet, Charles.....	Litchfield.....
Randle, Caleb.....	Belleville.....	Savage, Richard.....	Clarke City.....
Randle, William.....	Freeburg.....		

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Sawyer, V.	Staunton	Stewart, James C.	Carbon Hill
Sawyers, Joseph	Coal City	Stewart, Peter	Murphysboro
Saylor, C. F.	Murphysboro	Stelmeyer, E.	Staunton
Schaifer, Fred	Belleville	Stocks, H.	Carterville
Scheffler, Julius	Pekin	Stoker, A. E.	Buffalo
Schramm, Charles	Belleville	Stone, Frank	Lebanon
Scharinck, Frank	Edwardsville	Stone, Nathan	Carterville
Schmacker, Herman	Glen Carbon	Storm, Edwin	Worden
Schoolcraft, L.	Cartersville	Stout, F. M.	Springfield
Schoeder, Charlss.	Mt. Olive	Stout, W. E.	Rutland
Schroeder, Henry	do	Stowell, G. W.	Bloomington
Schnessel, Conrad	Breese	Streik, Wm	Belleville
Schulte, Fritz	Clinton	Stratt, John D.	Pinckneyville
Schumacher, Chas.	Marissa	Strivey, Wm	Taylorville
Schumm, Fred W.	Gardner	Stroud, Wm	Worden
Schuster, John	Marissa	Struck, Carl	Springfield
Scott, J. W.	Colchester	Struse, Henry H.	Athens
Scurrah, Castling R.	Braceville	Stuthard, George B.	Westville
Secor, Fred D.	Odin	Stuart, John	Ladd
Seeman, John C.	Cantrall	Sullivan, S.	Harrisburg
Seeman, George A.	do	Surber, Alexander H.	Danville
Seidel, Fred	Kinmundy	Swartz, Fred	Toluca
Seller, William	Ormsby		
Sells, Chas. B.	Colfax	Taylor, James	Edwards
Seymour, John	do	Taylor, Edwin	Trenton
Shafer, James M.	Girard	Taylor, Mack	Westville
Shanklin, A. S.	Carterville	Taylor, Wm. W.	Tamora
Sharp, John H.	Spring Valley	Taylor, Simeon	Bissell
Sheehan, Peter	Athens	Teaters, C. N.	Taylorville
Shellenger, S.	Willisville	Tefft, Ernest	Mt. Olive
Shepardson, Isaac V.	Fairmount	Temple, James C.	Springfield
Shroyer, A. D.	Lincoln	Terry, W. F.	Litchfield
Shinn, Charles	Springfield	Terry, George L.	Raymond
Shriver, P. A.	Kinmundy	Theuton, Henry	Rushville
Siddall, Herbert	Belleville	Thom, R.	Coal City
Siddall, John	do	Thomas, Fred	Rutland
Siddall, Levi	do	Thomas, Charles	DeSoto
Simmons, H.	Murphysboro	Thomasberry, Hiram A.	DuQuoin
Sinclair, Guy S.	Glen Carbon	Thompson, Wm. H.	Himrod
Silvis, Thomas S.	Carbon Cliff	Thompson, Fred	Westville
Simpkins, Homer	Streator	Thompson, J. H.	Marion
Sizemore, Wm. I.	Carterville	Tibbals, E. A.	do
Slocum, Clarence	Gilchrist	Timmons, Irvin F.	Wyoaming
Smith, Chas. H.	Seneca	Titus, C. B.	Tower Hill
Smith, Edward J.	Collinsville	Tindall, J. L.	Danville
Smith, George W.	Virginia	Tobin, Robert	Springfield
Smith, George W.	St. Louis, Mo.	Travis, Alonzo	Pana
Smith, P.	Danville	Travis, Wm	Birkner
Smith, S.	Marseilles	Tregoning, Chas.	Carterville
Smith, Robert	Collinsville	Tregoning, Geo.	do
Smith, Firth	Murphysboro	Turnblenson, Sinclair	Centralla
Smithmeyer, Anton	Lincoln	Turner, Geo. W.	Lewistown
Smyth, C. M.	Danville	Twombly, Edward	Coal Valley
Sneddon, John	O'Fallon		
Sneddon, Richard	Catlin	Vallow, P. Oliver	Kinmundy
Sneyd, James	Westville	Vaughn, John	McLean
Snowdon, Wm	Georgetown	Valentine, Chas.	Cable
Sowerby, Miles	Willisville	Vaughn, Wm. M.	Edwards
Sparks, Emery C.	Ellisville	Vandveer, Perry E.	Taylorville
Sparks, J. L.	Mt. Vernon	Vernon, James	LaSalle
Sparrling, Chas.	Seatonville		
Sparrling, Henry	do	Waggoner, Wm. F.	Raymond
Spiller, Elijah	Hallidayboro	Wagmire, James	Assumption
Spence, Elmer	Farmington	Waldrom, Thos.	Fredonia
Sprout, J. W.	Pontiac	Walker, James	Spaulding
Stanfel, Martin	Toluca	Walker, John H.	Mt. Olive
Stanford, J. W.	Pana	Walker, Joshua	do
Stanforth, F.	Wanlock	Wallace, Henry G.	East Peoria
Stanton, Wm. E.	Colchester	Waller, Wm. F.	Marion
Stedman, Edgar	Missionfield	Waters, Robert	Springfield
Stedman, Robert, Sr.	Danville	Walford, Noah	Hillsboro
Steel, E. H.	Salem	Wallock, Chas	Braceville
Steinheimer, Theodore	Lenzburg	Walsh, James D.	Auburn
Stephen, C. H.	Spring Valley	Walton, A. F.	LaSalle
Stewart, L. A.	Mt. Vernon		

Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Walton, Hugh.....	Norris	Williamson, Henry.....	Coal City.....
Walton, Patrick.....	Bureau Junction.	Williamson, Wm.....	do.....
Walton, Joseph.....	St. David.	Wills, Henry E.....	Harrisburg.....
Wantling, T. J.....	Pottstown.....	Wilson, David.....	Birkner.....
Wandless, W. S.....	Collinsville.....	Wilson, Wm. H.....	Middle Grove.....
Warner, Richard.....	Troy.....	Wilson, James.....	Springfield.....
Warner, M.....	Farmington.....	Windsor, Samuel.....	Norris.....
Wassel, Anton.....	Braceville.....	Wines, E. R.....	Springfield.....
Watson, Frank.....	Springfield.....	Wohlers, S. Henry.....	Mt. Olive.....
Watson, M.....	Riverton.....	Wood, Daniel A.....	Colfax.....
Wattawa, Joseph.....	Belleville.....	Woodward, J. R.....	Streator.....
Watts, T. J.....	Elmwood.....	Woolbright, D. A.....	Centralla.....
Weaver, Elmer.....	Dunfermline.....	Woodworth, Peter.....	Pekin.....
Webb, Albert M.....	Greenville.....	Worms, Joseph.....	Birkner.....
Welch, Benjamin.....	Harrisburg.....	Wormack, Chas. A.....	Glen Carbon.....
Wente, Frank.....	Nashville.....	Wright, Thos. C.....	Belleville.....
Wersen, W. L.....	Springfield.....	Wright, Wm. M.....	Pana.....
West, W. H.....	Murphysboro.....	Wrigley, James.....	Collinsville.....
West, Olie.....	Herrin.....		
Wesner, Ephraim.....	Streator.....	Yates, John.....	DeSoto.....
Westwood, Albert.....	Belleville.....	Yates, Wm.....	Coal City.....
Westwood, Edward.....	Birkner.....	Yebbing, Fred H.....	DuQuoin.....
Westwood, F. T.....	Belleville.....	Young, J. K.....	Girard.....
Weymouth John.....	Springfield.....	Young, James G.....	Gardner.....
Wheatley, John W.....	Coal City.....	Young, Robert.....	LaSalle.....
White, Korah.....	Tower Hill.....	Young, A. O. K.....	Girard.....
White, Henry.....	Riverton.....	Young, Peter J.....	Springfield.....
White, Perry J.....	Springfield.....	Young, W. L.....	DuQuoin.....
White, Robert.....	Lincoln.....	Youngusband, L.....	Coal City.....
Wickersham, J. R.....	Lake Creek.....	Youngquist, Frank.....	Sherrard.....
Wilkin, W. P.....	Springfield.....		
Williams, Andrew D.....	Sandoval.....	Zeigler, John.....	Iles Junction.....
Williams, Huston.....	Spaulding.....	Zerban, W. F.....	Belleville.....
Williams, John.....	Spring Valley.....	Zink, Louis.....	do.....
Williams, Thomas E.....	St. David.....	Zink, Peter A.....	do.....
Williams, Watson.....	Virden.....	Zuriker, Lorenz.....	Cable.....
Williams, Wm.....	DuQuoin.....		
Williams, Wm. H.....	Sherrard.....		
Williams, Wm. Hampton.....	Murphysboro.....		

HOISTING ENGINEERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Ackerman, Jacob.....	Belleville.....	Chitwood, William.....	Glenburn.....
Allen, William H.....	Collinsville.....	Clark, Charles M.....	DuQuoin.....
Anthony, John C.....	Belleville.....	Cline, John.....	LaSalle.....
		Collins, John.....	Birkner.....
Balwlr, John.....	Braidwood.....	Cook, W. D.....	Westville.....
Banker, Henry.....	Ridge Prairie.....	Cotton, George.....	Hallidayboro.....
Bath, Ameston.....	Cuba.....	Cox, John.....	Ledford.....
Beeby, William.....	Springfield.....	Craig, Daniel.....	Danville.....
Bell, George E.....	Canton.....	Crawson, William.....	O'Fallon.....
Benvenuto, Charles.....	Toluca.....	Crinigan, Barney.....	LaSalle.....
Birkley, N. T.....	Cuba.....	Crocker, Edward.....	Marquette.....
Blue, Jesse.....	Norris.....	Cruikshanks, Wm. A.....	Middle Grove.....
Bonick, Andrew.....	Gilchrist.....	Cummings, Robert H. L.....	Sparland.....
Bowman, George W.....	Yates City.....	Daley, Thomas.....	Diamond.....
Brown, G. A.....	Iles Junction.....	Dauck, John.....	LaSalle.....
Brubeck, J. W.....	Pawnee.....	Davenport, Thomas.....	New Castle.....
Brumann, Albert.....	Springfield.....	Davis, George W.....	Hanna City.....
		Davis, Thomas.....	Swanwick.....
		Davis, William H.....	Streator.....
		Davison, J. G.....	St. John.....
Campbell, Albert.....	Pottstown.....	Dawson, John.....	Streator.....
Campbell, James.....	Coal City.....	Dawson, Thomas.....	do.....
Carlson, Alexander.....	Galva.....	Dawson, V. C.....	Spring Valley.....
Carrington, Eugene.....	Moweaqua.....	DeBacher, Thomas.....	Elmwood.....
Carter, Albert J.....	Pinckneyville.....	DeHass, B. L.....	Tallula.....

Certificates of Service—Continued.

Name.	Postoffice.	Name.	Postoffice.
Dietrich, Philip.....	Freeburg.....	Lewis, William.....	Wanlock.....
Dillon, John.....	Auburn.....	Lippert, Adolph.....	Kewanee.....
Doe, R. P.....	Glen Carbon.....	Lloyd, Benjamin.....	Rentchler.....
Dodd, Samuel.....	Pottstown.....	Love, William.....	Virden.....
		Lumdburg, Eric.....	Galva.....
Ebel, August.....	Belleville.....		
Edwards, George W.....	Springfield.....	Marshall, Robert.....	Yates City.....
Egerton, J. O.....	Colchester.....	Mathews, George.....	DuQuoin.....
Eklis, Daniel B.....	Springfield.....	Mattern, Daniel.....	Spring Valley.....
Essex, George M.....	Soperville.....	Matthews, C.....	Marion.....
Evans, Albert.....	Glen Carbon.....	Matthews, William G.....	Bartonville.....
Everett, Charles.....	Rutland.....	Maurer, Edward.....	Spring Valley.....
		Maxwell, Fred.....	Peoria.....
Fischer, George.....	Staunton.....	McCalster, Thomas.....	Muddy Valley.....
Fisher, Patrick.....	Kangley.....	McDonald, William H.....	Pana.....
		McLean, John.....	Pleasant Plains.....
Gandy, James W.....	Peoria.....	McMillen, W. M.....	Danville.....
Glasford, Oliver.....	Orchard Mines.....	McWerthy, G. A.....	Smithboro.....
Glenam, Philip.....	Williamsville.....	Melvin, T. M.....	Tamara.....
Graham, J. A.....	Nilwood.....	Millem, John.....	Spring Valley.....
Graham, Reuben.....	Virden.....	Miller, Wm.....	Streator.....
Grattendick, Fred.....	Okawville.....	Morrison, Archie.....	Oglesby.....
Greaves, Allen.....	Nashville.....	Mumford, E. A.....	Kewanee.....
Grey, David F.....	Springfield.....	Murray, James H.....	Galva.....
Grierson, John.....	Streator.....		
Grimshaw, Joseph.....	LaSalle.....	Neal, Ambrose.....	Barclay.....
Groom, John.....	Belleville.....	Neil, John H.....	Bunker Hill.....
		Nelson, J. W.....	Sparta.....
Haas, Jacob.....	Millstadt.....	Nicholson, George A.....	Cuba.....
Hackett, Owen.....	Spaulding.....	Nord, John E.....	Galva.....
Hagler, Charles.....	Fredonia.....		
Hall, George R.....	Nilwood.....	Ogden, David.....	Rentchler.....
Hanson, William.....	O'Fallon.....	Ogden, Samuel.....	Mascoutah.....
Harms, Helke.....	Petersburg.....	Olson, Aug.....	Kangley.....
Harris, J. T.....	Tamara.....	Osborne, Benjamin.....	Streator.....
Heaver, F.....	Sandoval.....	Ottinger, William.....	Catlin.....
Hickox, Lee.....	Springfield.....		
Howe, Charles.....	Streator.....	Pankey, John M.....	Equality.....
		Peet, Charles.....	Marselles.....
Ichman, Frank.....	Spring Valley.....	Pendergast, James.....	Soperville.....
Isadore, Charles.....	Sparta.....	Phillips, William.....	Hallidayboro.....
Isadore, George.....	do.....	Pieton, Joseph.....	Farmington.....
		Pieton, Thomas H.....	do.....
Jackson, William.....	Minonk.....	Piper, Oliver.....	Worden.....
Jacobs, John P.....	Orchard Mines.....	Prichard, H. C.....	Lewistown.....
Jacobs, William.....	Murphysboro.....	Prichett, T. M.....	Niantic.....
Jamison, John.....	Petersburg.....		
Jeffrey, William.....	Gilchrist.....	Qualls, Nevel.....	Dubois.....
Johnson, Edgar W.....	Marissa.....	Quick, A. T.....	Sato.....
Jones, George W.....	Riverton.....		
Jones, T. A.....	Muncie.....	Raber Louis.....	Caseyville.....
Judd, Thomas.....	Cuba.....	Radford, James W.....	Cuba.....
		Radford, W. T.....	Bloomington.....
Ke rney, E.....	Hallidayboro.....	Rahaur, Michael.....	Pawnee.....
Kelley, Martin.....	Toluca.....	Redyard, John.....	Odin.....
Kemper, Christian.....	Belleville.....	Reese, William M.....	Roanoke.....
Kennedy, W J.....	Edwardsville.....	Reld, A. B., Jr.....	DuQuoin.....
King, Alexander, Jr.....	Cartersville.....	Rennard, James E.....	Westville.....
King, John.....	do.....	Reum, Charles H.....	Sorento.....
Kirby, Thos., Jr.....	Peru.....	Rice, B. F.....	Harrisburg.....
Klaug, John.....	Galva.....	Richmond, Edward B.....	Winchester.....
Klaus, Louis.....	Belleville.....	Rieger, John C.....	Pinekn-yville.....
		Riley, Michael.....	Westville.....
Langran, James.....	Fairbury.....	Roach, Samuel.....	Tamara.....
Larson, Charles L.....	Galva.....	Rogers, George.....	Sunfield.....
Lathan, William H.....	Hallidayboro.....	Rogers, Henry.....	Braidwood.....
Lewes, Jacob H.....	Pottstown.....	Rude, Edmond.....	DeSoto.....

Certificates of Service—Continued.

Name.	Postoffice.	Name.	Postoffice.
Sallade, George A.....	Chatham	Tefft, Ernst.....	Girard
Sanson, T. J.....	Carterville	Telfer, John K.....	Morris
Sawyers, Joseph.....	Coal City.....	Thome, Martin.....	Martinville.....
Schmacher, Charles.....	Marissa.....		
Schramm, Charles.....	Belleville.....		
Seebach, Joseph.....	Spring Valley....	Wallace, Harry G.....	East Peoria.....
Sexton, LaFayette.....	Dawson.....	Warner, Andrew M.....	Wenona.....
Seymour, A. J.....	Fredonia	Waymire, James.....	Assumption.....
Sheppard, W. C.....	Marquette	Wertwood, Edward.....	Birkner
Shurm, Fred.....	Gardner	Wheatley, Rolley.....	DuQuoin
Smith, Geo. W.....	Virginia	White, Henry.....	Riverton.....
Sorrells, D. H.....	Ashland	Williams, Husten.....	Spaulding.....
Sowarby, Miles.....	Willisville.....	Williams, Stephen P.....	Wyoming.....
Stoker, Edward.....	Bartonville.....	Williams, Watson.....	Barclay.....
Streck, William.....	Belleville.....	Willis, Harry.....	New Castle.....
Stroud, William.....	Worden.....	Wood, Daniel A.....	Colfax.....
Struck, Carl.....	Springfield.....	Woolbright, D. A.....	Centralla.....
Stuart, John.....	Oglesby.....	Wonnes, Joseph.....	Birkner.....
		Wormack, Charles A.....	Glen Carbon.....
Tanner, Henry.....	Pinckneyville....		
Taylor, Benjamin.....	Bartonville.....	Zeigler, John.....	Iles Junction.....
Taylor, Willard W.....	Tamaroa.....		

MINE EXAMINERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE—The revised mining law of 1899 changed the title or name "Fire Boss" to that of "Mine Examiner," and provided that those holding certificates as Fire Boss could exchange the same for that of Mine Examiner.

The names followed by the abbreviation "ex." have made such exchange. Those by "d" are deceased.

Name.	Postoffice.	Name.	Postoffice.
Adams, William M.....	Centralla.....	Brown, Mathew.....	Springfield.....
Adrien, Charles H.....	Hanna City.....	Brown, Archibald.....	Streator.....
Alexander, John.....	Cable.....	Brooks, Peter.....	Taylorville.....
Amberger, Joseph.....	Chatham.....	Brynn, William.....	Virden.....
Andree, John W.....	Greenview.....	Bullough, James.....	Girard.....
Anderson, James.....	Marlon.....	Bundy, John.....	Streator.....
Andrew, Thomas.....	Oglesby.....	Bumgartner, Andrew J.....	Barelay.....
Andrew, Thomas.....	Kangley.....	Burnett, J.....	do.....
Archibald, George.....	Green Ridge.....	Burnett, Thomas.....	do.....
Armstrong, George.....	Riverton.....	Burns, James, Sr.....	Springfield.....
Argyle, Joseph.....	Coal City.....	Burns, J.....	Spring Valley.....
Arnold, Stephen.....	Oglesby.....		
Asbery, E.....	Salem.....	Campbell, Robert.....	Witt.....
Asbery, J. B.....	Salem.....	Campbell, James.....	Assumption.....
Atkinson, John G.....	Cable.....	Cannon, John.....	Marquette.....
Avery, William.....	Belleville.....	Capet, Moses.....	Coal City.....
		Caplin, Aaron.....	Wenona.....
Back, Robert.....	Farmington.....	Carlson, Andrew.....	Colfax.....
Baker, Sherrard.....	Gillespie.....	Carr, J. W.....	Odin.....
Baker, Robert.....	Auburn.....	Carroll, Anthony W.....	Gillespie.....
Baker, Samuel G.....	do.....	Carter, James.....	LaSalle.....
Baldwin, J. F.....	Equality.....	Carter, Samuel.....	Braceville.....
Barkley, George.....	Greenview.....	Carylon, J.....	Oglesby.....
Barlow, Harry.....	Lake Creek.....	Case, William.....	Diamond.....
Baugh, William.....	Dawson.....	Casey, James.....	Selbytown.....
Beecham, William.....	Cardiff.....	Casey, John.....	Williamsville.....
Beekman, Theodore.....	Glen Carbon.....	Castillo, Henry.....	Pana.....
Bell, Arthur.....	Carterville.....	Chadderton, John.....	Lenz Station.....
Bell, William.....	Streator.....	Champley, James.....	Wenona.....
Berry, W. C.....	Stanton.....	Clark, Joseph B.....	Hornsby.....
Betson, Robt.....	Farmington.....	Craine, J. E., Jr.....	Murphy's-boro.....
Bettison, William.....	Canton.....	Cunningham, David.....	Carlinville.....
Biehl, Charles.....	Belleville.....	Champley, James, ex.....	Wenona.....
Bigelow, G.....	Spaulding.....	Condon, Charles H.....	Hanna City.....
Blair, Herbert M.....	Centralla.....	Connolly, Terrance J.....	Assumption.....
Bluefield, Charles.....	Coal City.....	Cook, William.....	DuQuoin.....
Blakemore, George.....	Streator.....	Cook, Elijah.....	Waukeon.....
Blenkinsopp, Thomas, Jr.....	Cable.....	Cook, Thomas.....	Belleville.....
Blue, J. W.....	Grape Creek.....	Cooper, Moses.....	Athens.....
Booth, Enoch.....	Springfield.....	Costello, Henry, ex.....	Pana.....
Borg, Frank.....	Mt. Olive.....	Cowley, William.....	DuQuoin.....
Bowen, Gwilym.....	Herrin.....	Crichton, Lawson.....	Taylorville.....
Boyer, John.....	Fairmount.....	Connaughton, Edward.....	Belleville.....
Brennan, Patrick.....	Toluca.....	Cox, E.....	Centralla.....
Brennan, John E.....	Virden.....	Cox, W. E.....	Centralla.....
Brewer, Emery A.....	Mt. Pulaski.....	Cox, Will M.....	Edwardsville.....
Brown, Ben F.....	Bryant.....	Cumming, J. M.....	East Peoria.....

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Dacy, William.....	Springfield.....	Hardman, J. J.....	Auburn.....
Dallas, Charles.....	Odin.....	Harrison, James.....	Athens.....
Dalzell, Andrew.....	Lanton.....	Harrison, John.....	Odin.....
Damrath, Frederick.....	Virden.....	Haun, George.....	Litchfield.....
Daniel, John.....	Belleville.....	Hamilton, David.....	Assumption.....
David, Emmer E.....	Springfield.....	Hampton, Harry.....	O'Fallon.....
Davis, George.....	Springfield.....	Handwright, J.....	Virden.....
Davies, Thomas.....	Nilwood.....	Halsfield, Aaron.....	Oglesby.....
Davis, William.....	Streator.....	Hart, Chas. J.....	Virden.....
Davis, William H.....	do.....	Harron, Walter.....	orenton.....
Davis, Jackson.....	Athens.....	Haselton, F.....	Springfield.....
Davis, William.....	Streator.....	Harvey, C. M.....	Williamsville.....
Davis, John.....	Taylorville.....	Hawkins, Sidney.....	Belleville.....
Davison, William D.....	Sandoval.....	Hayden, G. S.....	Wenona.....
Day, Louis B.....	Taylorville.....	Hayes, Webster.....	Glen Carbon.....
Dayton, J.....	Roanoke.....	Hanson, Charles.....	Danville.....
Deakins, William E.....	Rentchler.....	Hardin, Hiram H.....	Divernon.....
Dickey, J. G.....	Sparta.....	Harvey, Frank.....	Springfield.....
Dodge, H. N.....	East Georgia.....	Haskins, Joseph.....	Catlin.....
Doonier, P. J.....	Westville.....	Hillery, T.....	Sherrard.....
Dowdell, W.....	Danville.....	Haywood, Joseph.....	Centralia.....
Dowell, William C.....	Centralia.....	Hellery, G. M.....	Dumferline.....
		Hemmersbach, Peter.....	Farmington.....
Edmunds, Morgan.....	Mt. Olive.....	Henley, J. H.....	Odin.....
English, Thomas.....	Streator.....	Henderson, Alexander.....	Springfield.....
Evans, Edward J.....	Pekin.....	Henderson, J.....	Spaulding.....
		Herbert, Albert W.....	Athens.....
Farmer, James.....	Marissa.....	Herzog, W.....	Glen Carbon.....
Farrand, Walter.....	Barclay.....	Hines, William.....	Rutland.....
Farrall, John H.....	Springfield.....	Hippard, W. J.....	Belleville.....
Fickart, Henry.....	Staunton.....	Hodder, Jacob.....	Norris.....
Flicker, F.....	do.....	Hooper, Geo.....	Winchester.....
Fiellingham, John E.....	Peoria.....	Houston, Robt. J.....	Lebanon.....
Felton, Harry.....	Petersburg.....	Holden, Andrew.....	Coal City.....
Flynn, Chas.....	Pana.....	Hopkins, Reese.....	Litchfield.....
Ford, John.....	Tilden.....	Howell, J.....	Cartersville.....
Forsyth, Hugh.....	Marissa.....	Howells, George.....	Staunton.....
Fox, John.....	Elmwood.....	Hoye, William.....	Braidwood.....
Fremgen, C. J.....	Glen Carbon.....	Hobbs, M.....	Herrin.....
Fremgen, C. W.....	Glen Carbon.....	Hughes, John.....	Decatur.....
Fryer, Alfred.....	Springfield.....	Hutchinson, Ralph.....	Barclay.....
		Jackson, John.....	Marion.....
Galbraith, Patrick.....	Coal City.....	James, Jonah.....	Grape Creek.....
Galvin, Martin.....	Assumption.....	Jasper, John.....	DuQuoin.....
Gallagher, J. M.....	Cartersville.....	Jenkins, Richard.....	LaSalle.....
Galligan, Michael.....	Herrin.....	Jenkins, T. C.....	Murphysboro.....
Gastenecker, Wm.....	Troy.....	Jennings, Wm M.....	Athens.....
Gebaur, Joseph.....	Glen Carbon.....	Jeten, T. F.....	Roanoke.....
Getteman, L.....	Centralia.....	Johnson, David.....	Oglesby.....
Ghebandy, Honore.....	Westville.....	Johnston, Samuel.....	do.....
Glover, Richard.....	Belleville.....	Johnson, James N.....	Cartersville.....
Gloss, Michael.....	Gardner.....	Jones, Alex.....	Oglesby.....
Goehe, William.....	Staunton.....	Jones, Ben. J., ex.....	Coffeen.....
Gosnell, Ira.....	Herrin.....	Jones, Thomas.....	Sebanon.....
Grabuck, Emile.....	Gardner.....	Jones, John.....	Springfield.....
Graham, L. A.....	Bloomington.....	Jones, Willis.....	Herrin.....
Gray, Alexander.....	Gillespie.....	Jones, Benj. J.....	Coffeen.....
Gray, Henry.....	Athens.....	Jones, Morgan.....	Litchfield.....
Gray, William.....	Streator.....	Jones, Robt. R.....	Oglesby.....
Green, Wm H.....	Belleville.....	Jones, Wm. Hy.....	Catlin.....
Green, J. W.....	Springfield.....	Jordan, Robt. (d).....	Streator.....
Greenan, John.....	Coal City.....		
Gregor, Charles.....	Springfield.....	Kane, J. M.....	Springfield.....
Griffin, John B.....	Niantic.....	Kaney, John.....	Centralia.....
Griffith, Peter.....	Fairbury.....	Kaveny, John R.....	Troy.....
Griffiths, Evan.....	St. David.....	Kenney, Wm.....	Spaulding.....
Griffith, David.....	Centralia.....	Kepper, Wm.....	Peru.....
Groom, Isaac.....	Belleville.....	Kidd, S. A.....	Oglesby.....
Guy, John.....	Streator.....	Kingsley, G.....	Kingston Mines.....
		Kingsley, T.....	Kingston Mines.....
Haddow, Thomas.....	Pana.....	Killingworth, Chas. H.....	Pinckneyville.....
		Kloever, Matthew.....	Pana.....

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Knapp, Charles.....	Seatonville.....	McKillop, Donald.....	Carbon Hill.....
Knies, Harry.....	Breese.....	McGarrity, John.....	Springfield.....
Koehler, Charles.....	Lincoln.....	McKenzie, Alex. C.....	Canton.....
Kohers, Adam.....	Breese.....	McKinzie, Hugh (d).....	Springfield.....
Kolkmann, Gustav.....	Marissa.....	McLaughlin, John P.....	Auburn.....
Kortkamp, Karl.....	Hillsboro.....	McBride, George.....	Mascontah.....
Kortkamp, Louis.....	do.....	McCall, John.....	Springfield.....
Kramer, Frederick.....	Centralia.....	McLaughlin, Wm.....	DuQuoin.....
Krepper, William.....	Springfield.....	McLean, Wm. F.....	Iles Junction.....
Krump, Chas.....	Lebanon.....		
		Nation, Henry C.....	Glen Carbon.....
Lamar, Frank.....	Worden.....	Naylor, T. W.....	do.....
Lamb, George.....	Springfield.....	Neal, Edward O.....	Wolcott.....
Lasley, Wm.....	Hallidayboro.....	Neil, A.....	Spaulding.....
Lawson, John.....	Cable.....	Neil, Warren.....	Danville.....
Lawson, Thomas.....	Lake Creek.....	Neil, F. C.....	Gillespie.....
Ledford, L.....	Ledford.....	Neimes, William.....	St. David.....
Lettsom, Wm.....	Seneca.....	Nesbit, Charles L.....	Freeburg.....
Linton, Quincy M.....	Gillespie.....	Neylon, Dennis.....	Selbytown.....
Lehwald, Herman.....	Springfield.....	Nichols, Eli W.....	Dunfermline.....
Lloyd, Rowland R.....	Barclay.....	Nixon, Robert.....	Streator.....
Longshore, Harry A.....	DuQuoin.....	Nordner, C. K.....	Athens.....
Lockhart, James M.....	Sunfield.....	Noll, Charles.....	Springfield.....
Lordon, Michael.....	Centralia.....	Noll, Peter.....	Belleville.....
Lumaghi, Louis F.....	Collinsville.....	Nordman, Ferdinand.....	Breese.....
Lyons, Mark.....	Lincoln.....	Nye, C. L.....	Decatur.....
Manees, Charles.....	Centralia.....	O'Connor, Patrick F.....	Paisley.....
Mann, Jacob.....	Mascontah.....	Olroyd, Peter W.....	Springfield.....
Martin, Samuel.....	Glen Carbon.....	Opp, Sherman W.....	Canton.....
Martin, William.....	LaSalle.....	Owens, Evan.....	Auburn.....
Maggs, Jacob.....	Danville.....		
Masste, Alfred N.....	Belleville.....	Parker, Joseph.....	Carbon Hill.....
Massie, J. G.....	do.....	Payne, Henry.....	Litchfield.....
Matthews, John E.....	Riverton.....	Payne, Emanuel.....	do.....
Mayne, Thomas.....	Glen Carbon.....	Pearl, John.....	Braidwood.....
Meyer, B.....	Staunton.....	Pettigrew, A.....	Roanoke.....
Meyer, Louis.....	Breese.....	Pettigrew, J.....	do.....
Midyett, Jesse.....	Hallidayboro.....	Phelps, George.....	Herrin.....
Millett, Thomas.....	Troy.....	Phillips, Benjamin.....	Kangley.....
Mitchell, Elijah R.....	Farmington.....	Pick, Edward.....	Central City.....
Mitchell, T.....	DuQuoin.....	Pickton, Felix.....	Danville.....
Mitchinson, John.....	Hanna City.....	Pickton, John W.....	Farmington.....
Middleton, J. L.....	Salem.....	Pierard, Edward.....	Coal City.....
Miller, Alexander.....	Ridge Prairie.....	Pinson, Samuel.....	Coffeen.....
Millar, C.....	Glen Carbon.....	Preval, Fred.....	Springfield.....
Miller, John K.....	Staunton.....	Poole, Robert H.....	Edinburg.....
Miller, G. W.....	Pawnee.....	Potter, Edward.....	Belleville.....
Moffat, A. S.....	Sparta.....	Potter E.....	Hanna City, R. R., No. 1.....
Monghan, T. P.....	Springfield.....	Price, John B.....	Marissa.....
Monson, Charles.....	Springfield.....	Price Wm.....	Braceville.....
Montgomery, Wm.....	Harrisburg.....	Prince, Thomas.....	Mt. Olive.....
Moran, Thomas.....	Assumption.....	Prudent, Edward.....	Centralia.....
Morgan, Daniel S.....	Springfield.....		
Mornkio, Peter.....	Glen Carbon.....	Quinn, Bernard.....	Bloomington.....
Mountjoy, John H.....	Clark City.....		
Morris, James P.....	Centralia.....	Raab, Rudolph.....	Carlinville.....
Morgan, E. T.....	Georgetown.....	Race, George.....	Springfield.....
Morgan, Joseph.....	Streator.....	Rackley, Emory.....	Pinckneville.....
Morris, John H.....	Wenona.....	Rae, Robert.....	Carbon Hill.....
Moss, Thomas.....	Staunton.....	Rankin, Thomas A.....	Westville.....
Muentrich, J.....	do.....	Ready, Thos.....	Springfield.....
Mullage, Jos.....	Warden.....	Reareley G. W.....	Riverton.....
Munster, James.....	Muncie.....	Reid, Andrew.....	Springfield.....
Muir, Andrew.....	Springfield.....	Reh, Charles.....	Belleville.....
Murphy, John.....	Braidwood.....	Rennison, Henry.....	St. John.....
Murrel Wm.....	Westville.....	Reynolds, John.....	Streator.....
McCall, Maurice R.....	Odin.....	Reynolds, Andrew.....	Danville.....
McCranor, James.....	Girard.....	Reynolds, David.....	Muncie.....
McCrindle, David.....	Oglesby.....		
McDonald, Wm.....	Braidwood.....		
McDill, James.....	Assumption.....		
McEwen, Charles.....	Carbon Hill.....		

Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Rhodes, D. R.....	Pana.....	Taake, Henry H.....	Central City.....
Rhodes, J. L.....	Westville.....	Tauble, E. E.....	Hillsboro.....
Rice, Geo.....	Springfield.....	Thaine, James.....	Litchfield.....
Ritson, Hugh.....	Farmington.....	Thom, John.....	Coal City.....
Rider, James H.....	Pontiac.....	Thomas, John R.....	Spring Valley.....
Richard, James.....	Belleville.....	Thomas, W. J.....	do.....
Richardson, Thos.....	Streator.....	Thorunt, Joseph, Sr.....	Trenton.....
Roberts, Evan.....	Danville.....	Thursh, David Z.....	Hanna City.....
Robinson, Thomas J.....	Greenvlew.....	Thursh, David S.....	do.....
Robbins, Aaron.....	Mt. Pulaski.....	Thomas, David.....	Canton.....
Rolls, James.....	Pana.....	Titler, William L.....	O'Fallon.....
Rolandelly, C. D.....	Clarke City.....	Tompkins, Frank.....	St. David.....
Rowlands, Ivor.....	Virden.....		
Saurs, C.....	Peoria.....	Valew, Edward.....	Glen Carbon.....
Savage, Mike.....	Lincoln.....	Vallow, Ellis.....	Kinmundy.....
Scattergood, John.....	Barclay.....	Vit, Charles.....	Litchfield.....
Schmidt, Conrad.....	Lincoln.....		
Schmidt, Henry.....	Staunton.....	Walte, Walter.....	Spring Valley.....
Schmidt, A. R.....	Spaulding.....	Wall, J. E.....	Divernon.....
Schrayer, Moses.....	Springfield.....	Ward, John G.....	Streator.....
Scott, Wm. J.....	do.....	Ward, Robert, ex.....	do.....
Seoby, Ray.....	Gilchrist.....	Ward, Wilson.....	Paisley.....
Sebastain, Charles.....	Freeburg.....	Watson, Thomas.....	Central City.....
Seidl, Frank J.....	Sandoval.....	Wendler, Adelbert.....	Glen Carbon.....
Self, J.....	Glen Carbon.....	Westwood, F. T.....	do.....
Secor, T. D.....	Odin.....	Whalen, Michael.....	Greenridge.....
Shaw, Henry.....	Spring Valley.....	White, Louis.....	Spring Valley.....
Siddall, Edward.....	Streator.....	Whitecamper, Louls.....	Lincoln.....
Siddall, John W.....	do.....	Whitehead, Edward.....	Farmington.....
Siddall, James.....	do.....	Wilkinson, George R.....	Bissell.....
Sine, C. A.....	Herrin.....	Wetherill, James.....	Ladd.....
Smith, Geo. A.....	Sandoval.....	Wigham, Wm. G.....	Sparta.....
Smith, G. T.....	Dawson.....	Willard, Charles S.....	Glen Carbon.....
Smith, Henry.....	Smithton.....	Williams, James.....	Oglesby.....
Smith, William H.....	Taylorville.....	Williams, T. J.....	Cardiff.....
Smith, John P.....	Glen Carbon.....	Williams, Anthony.....	Centralia.....
Smith, James.....	Streator.....	Williams, William H.....	Edinburg.....
Smith, Benjamin.....	Canton.....	Williamson, Jacob H.....	Bissell.....
Smith, Harry.....	Troy.....	Williamson, Jacob.....	do.....
Smith, John H.....	Herrin.....	Wilson, Henry, ex.....	Pana.....
Smith, William.....	Belleville.....	Wilson, J. M.....	Springfield.....
Sneddon, Michael.....	Chatham.....	Williams, William E.....	Streator.....
Sollis, John.....	Centralia.....	Wilson, Henry.....	Pana.....
Spies, Alfred.....	Braceville.....	Winterbottom, John.....	Sparta.....
Spies, E.....	do.....	Winterbottom, J. G.....	do.....
Steel, Daniel.....	Collinsville.....	Wood, William.....	Streator.....
Steele, D.....	Centralia.....	Worthington, Hillard.....	Hallidayboro.....
Steel, Neal.....	do.....	Wright, David.....	Carlinville.....
Stearns, James.....	Hallidayboro.....	Wright, William C.....	Centralia.....
Stonburner, L. L.....	Sorento.....		
Slow, Michael.....	Braceville.....	Yemm, William.....	Gillespie.....
Steiber, Anton.....	Glen Carbon.....		
Steines, Benjamin.....	Willisville.....	Zink, P. J.....	Belleville.....
Stevens, Walter.....	Streator.....		
Stevens, John.....	Cuba.....		
Stewart, John T.....	Couterville.....		
Stirrat, James.....	Canton.....		
Streitner, J.....	Kewanee.....		

MINE EXAMINERS, CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Arnold, Stephen.....	Kangley	Kopps, August.....	Girard
Bagshaw, George W.....	Virden.....	Kortcamp, Carl.....	Hillsboro.
Blakeman, George	Streator	Kortcamp, Lewis	.. do
Borg, Frank.....	Mt. Olive.....	Lewis, Edward	Ladd
Boulton, Henry.....	Coal City	Moffett, Edward A	Bartonville.....
Bough, William.....	Dawson	Montgomery, John H.....	Gardner
Brooks, Peter.....	Taylorville	Mooney, Arthur.....	Kangley
Brown, John	Streator	McDonald, M. E.....	LaSalle.....
Caveny, Edward.....	Pana.	Ross, S. H.....	Girard
Davis, Thomas.....	Nilwood	Schmidt, Ernest	Mt. Olive.....
Franzen, Mat.....	Girard	Schultz, John.....	Diamond
Gray, William.....	Streator	Shaw, Francis M.....	Hallidayboro....
Griffin, John	Niantic.	Shopman, John.....	Mt. Olive.....
Hall, John Herbert.....	Minonk	Siebenhauer, Wm.....	LaSalle
Hoesfield, Aaron	Oglesby	Sloufskie, Hermann.....	Decatur
Hornanor, Paul.....	Lincoln.	Stewart, Samuel.....	Coal City
Hughes, John.....	Decatur	Taylor, Samuel	O'Fallon.....
Humphreys, William.....	Clarke City.....	Thomas, David	Canton.....
Jenkins, Rutland.....	LaSalle.	Ward, Robert	Streator
Kneper, David.....	Girard	Wilson, Archie.....	Clarke City.....
		Wilson, John.....	Gardner
		Wood, Henry	Streator

ILLINOIS STATE AGREEMENT

BETWEEN THE

Illinois Coal Operators' Association and the United Mine Workers of Illinois

From April 1, 1904, to March 31, 1906.

WHEREAS, A contract between the operators of the competitive coal fields of Western Pennsylvania, Ohio, Indiana and Illinois, and the United Mine Workers of America, has been entered into at the City of Indianapolis, Indiana, March 21, 1904, fixing a scale of mining prices, day wages and conditions, for certain base points therein set forth, to continue in force and effect for two years from April 1, 1904, and

WHEREAS, This contract fixes the pick mining price of bituminous mine run coal at Danville at fifty-two (52c) per ton of two thousand (2,000) pounds; therefore be it

Resolved, That the prices for pick-mined coal throughout the state for two years beginning April 1, 1904, shall be as follows:

FIRST DISTRICT.

Streator, Cardiff, Clarke City and associated mines, including Toluca thick vein.....\$0.61
(NOTE.—The matter of the clay parting at Streator to be referred to sub-district convention for adjustment.)

Third vein and associated mines, including third vein at Streator, including twenty-four inches of brushing... .79

Wilmington and associated mines, including Cardiff long-wall and Bloomington thin vein, including brushing... .84

Bloomington thick vein..... .74

Pontiac, including twenty-four inches of brushing..... .84

Pontiac top vein..... .61

Marselles, Seneca and Morris (Referred to a joint committee of two miners and two operators, who shall take action prior to May 15, 1904, the scale to be in force from April 1, 1904, and in default of an agreement the matter shall be referred to the two state executive boards.)
(NOTE.—See Morris and Seneca Local Agreements.)

Cornell, long-wall, third vein conditions .79

Cornell, room and pillar 69

SECOND DISTRICT.

Danville, Westville, Grape Creek and associated mines in Vermillion county.\$0.52

THIRD DISTRICT.

Springfield, Dawson and associated mines..... .52½

Lincoln and Niantic..... .56

Colfax 56

FOURTH DISTRICT.

Mines on C. & A. south of Springfield, to and including Carlinville; including Taylorville, Pana, Tower Hill, Litchfield, Hillsboro, Witt (Paisley), Divernon and Pawnee..... .52

Assumption long-wall, including twenty-four inches of brushing..... .68½

Assumption upper vein, including twenty-four inches of brushing..... .87

Moweaqua, room and pillar..... .56

Decatur, long-wall, present conditions.. .67

Decatur, room and pillar (Referred to the state president of the United Mine Workers and the commissioner of the Illinois Coal Operators' Association to fix the mining price, and if they cannot agree by May 1st it shall be taken up by the state executive boards; the rate so determined to be a part of this contract.)

Raymond, referred for local settlement.

FIFTH DISTRICT.

Glen Carbon, Belleville and associated mines, to and including Percy, Pinckneyville, Willisville and Nashville.... .52

Coal five feet and under..... .57

SIXTH DISTRICT.

DuQuoin, Odin, Sandoval, Centralia and associated mines..... .48

Salem and Kinmundy..... .53

SEVENTH DISTRICT.

Mount Vernon	.53
Jackson county	.48
(All coal five feet and under, five cents extra per ton; this not to apply to lower bench, nor rolls or horsebacks.)	
Lower bench, Jackson county, for shipping mines, miners to carry fourteen inches brushing	.61
Saline county	.48
(Saline county question of low coal referred to joint sub-district for adjustment.)	
Williamson county	.45

EIGHTH DISTRICT.

Fulton and Peoria counties, thin or lower vein (third vein conditions)...	\$0 79
Fulton and Peoria counties, No. 5 vein.	59
Astoria, No. 5 vein (Fulton and Peoria counties conditions).....	59
Fulton and Peoria counties, No. 6 vein (with Kewanee and Etherley conditions, undercutting and wedging the coal; and if they can not obtain members of the U. M. W. of A. to mine the coal under these terms and conditions, it shall be the privilege of the operators to call for a meeting of the joint executive boards of the miners and operators, and said joint executive boards shall fix a rate for shooting coal in that seam)	68
Gilchrist, Wanlock, Cable, Sherrard and Silvis mines, 63 cents per ton, with last year's conditions. In case of deficient work, where miner and mine manager can not agree as to compensation, the mine committee shall be called in, and, if they cannot agree, the dispute shall be carried up under the 13th clause of the present scale	
Kewanee, Etherley and Wyoming.....	68
Pottstown, No. 1 seam, scale to be the same as Gilchrist and Wanlock, except in the brushing of the top; that shall be settled by the sub-district.	
Colchester, referred for local settlement.	
Pekin, shipping mines only, mining rate and dead work scale to be referred to President Perry, Commissioner Just, one member of the U. M. W. of Illinois, and one member of the Illinois Coal Operators' Association, to be appointed by the respective organizations, together with such fifth party as they may agree upon, whose decision shall be made by a majority vote, not later than May 1, 1904, and be effective for two years from April 1, 1904; such decision to be based upon the competitive and mining conditions, between such mines and shipping mines in the Peoria district.	

(Note: See Pekin shipping mines local agreement.)

NINTH DISTRICT.

Mount Olive, Staunton, Gillespie, Clyde, Sorento, Coffeen and Worden, and mines on the Vandalla line as far east as and including Smithboro, and on the B. & O. S. W. as far east as Buxton	\$0 52
Coal five feet and under.....	57

NO INCREASE IN COST EXCEPT AS PROVIDED.

First. The Indianapolis Interstate Convention, having adopted a mining and underground day labor scale, in effect April 1, 1904, no changes or conditions shall be imposed in the Illinois scale for the coming two years that increase the cost of production of coal in any district in the State, except as may be provided.

EMPLOYEES EXEMPTED FROM JURISDICTION OF U. M. W. OF A.

Second. No scale of wages shall be made by the United Mine Workers for mine manager, mine manager's assistant, top foreman, company weighman, boss drivers, night boss, head machinist, head boiler-maker, head carpenter, night watchman, hoisting engineers. The authority to hire and discharge shall be vested in the mine manager, top foreman and boss driver. The term "assistant" shall apply only to such as are authorized to act in that capacity. The night watchman shall be exempt when employed in that capacity only. The terms "head carpenter" and "head machinist" shall apply only to such as have general charge of carpentry or machine work at two or more mines, or at one mine and one or more washing plants.

NO MARKET RESTRICTION.

Third. Any operators paying the scale rate of mining and day labor under this agreement shall at all times be at liberty to load any railroad cars whatever, regardless of their ownership, with coal, and sell and deliver such coal in any market and to any person, firm or corporation that he may desire.

QUALITY OF MINE-RUN COAL. PUSHING COAL BY MINERS PROHIBITED.

Fourth. The scale of prices for mining per ton of 2,000 pounds, run-of-mine coal herein provided for, is understood in every case to be for coal practically free from slate, bone and other impurities, loaded in cars at the face, weighed before screening; and that the practice of pushing coal by the miners shall be prohibited.

MINING AND SHOOTING TO BE ACCORDING TO STATE MINING LAW.

Fifth. (a) Whether the coal is shot after being undercut or sheared by pick or machine, or shot without undercutting or shearing, the miners must drill and blast the coal in accordance with the State mining law of Illinois, in order to protect the roof and timbers and in the interest of general safety. Any miner who persistently violates the letter or spirit of this clause shall be discharged.

(b) The system of paying for coal before screening was intended to obviate the many contentions incident to the use of screens, and was not intended to encourage unworkmanlike methods of mining and blasting coal, or to decrease the proportion of screened lump, and the operators are hereby

guaranteed the hearty support and coöperation of the United Mine Workers of America in disciplining any miner who from ignorance or carelessness, or other cause, fails to properly mine, shoot and load his coal.

PENALTIES FOR LOADING IMPURITIES.

Sixth. In case slate, bone, clay, sulphur or other impurities are sent up with the coal by the miner, it shall be the duty of whomever the company shall designate as inspector to report the same, with the estimated weight thereof, and the miner or miners so offending shall have such weight deducted from the established weight of the car, and for the first offense in any given month shall be fined 50 cents; for the second offense in the same month he or they shall, at the option of the operator be fined \$2.00 or suspended for two working days; and for the third, or any subsequent offense in the same month, or in malicious or aggravated cases for the first, or any subsequent offense, the operator may indefinitely suspend or discharge.

The company weighman shall post in a conspicuous place at the pit head the names of all miners dealt with hereunder.

The inspector designated by the operator shall be a member of the U. M. W. of A., but in the discharge of the duties herein specified shall not be subject to the jurisdiction of the local union or president or pit committee, and against any miner or committeeman seeking in any way to embarrass the inspector in or because of the discharge of such duties the provisions of the miners' State constitution shall be invoked, and in addition he shall at the option of the operator be suspended for two working days.

In case it shall be alleged by either the local representative of the miners, or by the operator, that the inspector is not properly performing his duties hereunder, it shall be so reported to the miners' sub-district president, who shall, within 24 hours after the receipt of notification, take it up with the superintendent of the company for adjudication; and, if it shall be found that the inspector is not faithfully performing such duties, he shall be discharged or transferred to other duties, as the operator may elect.

The proceeds of all fines hereunder shall be paid to the miner's sub-district treasurer, and under no circumstances shall any such fines be remitted or refunded.

PAY DAYS AND STATEMENTS OF ACCOUNT.

Seventh. The miners of the State of Illinois are to be paid twice a month, in lawful money, the balance due them, the dates of pay to be determined locally, but in no event shall more than one-half month's pay be retained by the operator. When any number of men at any mine so demand, statements will be issued to all employes not less than 24 hours prior to pay-day. The miners and operators shall decide locally as to the form and manner in which statements shall be issued. No commission will be charged for wages advanced to employes between pay-days, but any advances between pay-days shall be at the option of the operator.

POWDER—PRICE AND QUALITY.

Eighth. The price for powder per keg shall be \$1.75. The miners agree to purchase their powder from the operators, provided it is furnished of standard grade and quality; that to be determined by the operators and expert miners jointly, where there is a difference. Powder is to be delivered at the face when requested.

BLACKSMITHING.

Ninth. The price for blacksmithing for pick mining shall be 6-10 of a cent per ton for room and pillar work, and 12½ cents per day per man, or 25 cents per month, for long-wall for pick and drill sharpening.

OIL.

Tenth. It is understood that there is no agreement as to the price of oil.

INSIDE DAY WAGE SCALE.

Eleventh. Pursuant to the Indianapolis agreement, of March 21, 1904, the inside day wage scale shall be as follows:

Tracklayers	\$2.42
Tracklayers' helpers	2.23
Trappers	1.06½
Bottom Cagers	2.42
Drivers	2.42
Trip riders and grippers	2.42
Water haulers and machine haulers ..	2.42
Timbermen, where such are employed ..	2.42
Pipemen, for compressed air plants ..	2.36
Brushers in long-wall mines, third vein and Wilmington fields, northern Illinois	2.42
Other company men in long-wall mines of third vein and Wilmington fields, northern Illinois	2.23
All other inside day labor	2.23

Provided, that all classes of underground day labor not specified above, whose rates have been fixed locally, shall be reduced 5.55 per cent

DEFINITION OF EIGHT-HOUR DAY FOR MINERS.

Twelfth. The above scale of mining prices is based upon an eight hour workday, and it is definitely understood that this shall mean eight hours work at the face, exclusive of noon time, six days a week, or forty-eight hours in the week, provided the operator desires the mine to work, and no local ruling shall in any way affect this agreement, or impose conditions affecting the same.

OVERTIME FOR DAY LABOR.

Any class of day labor may be paid, at the option of the operator, for the number of hours and fractions thereof actually worked, at any hour rate based on one eighth of the scale rate per day: *Provided, however, that when the men go into the mine in the morning they shall be entitled to two hours' pay whether the mine hoists coal two hours or not, except in the event that they voluntarily leave their work during this time without the consent of the operator, they shall*

forfeit such two hours' pay; *Provided, further*, that overtime by day laborers, when necessary to supply railroad chutes with coal by night or Sunday, where no regular men therefor are exclusively employed, or when necessary in order not to impede the operation of the mine the day following, and for work which cannot be performed or completed by the regular shift during regular hours without impeding the operation of the mine, may be performed and paid for at the same rate per hour.

DUTIES AND LIMITATIONS OF PIT COMMITTEE. ADJUSTMENT OF DISPUTES AND GRIEVANCES.

Thirteenth. (a) The duties of the pit committee shall be confined to the adjustment of disputes between the pit boss and any of the members of the United Mine Workers of America working in and around the mine, for whom a scale is made, arising out of this agreement, or any sub-district agreement made in connection herewith, where the pit boss and said miner, or mine laborers, have failed to agree.

(b) In case of any local trouble arising at any shaft through such failure to agree between the pit boss and any miner or mine laborer, the pit committee and the miners' local president and the pit boss are empowered to adjust it; and, in case of their disagreement, it shall be referred to the superintendent of the company and the president of the miners' local executive board, where such exists, and shall they fail to adjust it—and in all other cases—it shall be referred to the superintendent of the company and the miners' president of the sub-district; and should they fail to adjust it, it shall be referred in writing to the officials of the company concerned and the state officials of the U. M. W. of A. for adjustment, and in all such cases, the miners and mine laborers and parties involved must continue at work pending an investigation and adjustment, until a final decision is reached in the manner above set forth.

WHEN DAY MEN ARE TO BE FURNISHED BY PIT COMMITTEE.

(c) If any day men refuse to continue at work because of a grievance which has or has not been taken up for adjustment in the manner provided herein, and such action shall seem likely to impede the operation of the mine, the pit committee shall immediately furnish a man or men to take such vacant place, or places, at the scale rate in order that the mine may continue at work; and it shall be the duty of any member, or members, of the United Mine Workers, who may be called upon by the pit boss, or pit committee, to immediately take the place or places assigned to him or them in pursuance hereof.

DUTIES AND LIMITATIONS OF PIT COMMITTEE.

(d) The pit committee, in the discharge of its duties, shall under no circumstances go around the mine for any cause whatever, unless called upon by the pit boss or by a miner or company man who may have a grievance that he can not settle with the boss; and, as

its duties are confined to the adjustment of any such grievances, it is understood that its members shall not draw any compensation except while actively engaged in the discharge of said duties. Any pit committeeman who shall attempt to execute any local rule or proceeding in conflict with any provision of this contract, or any other made in pursuance hereof, shall be forthwith deposed as committeeman. The foregoing shall not be construed to prohibit the pit committee from looking after the matter of membership dues and initiations in any proper manner.

(e) Members of the pit committee employed as day men shall not leave their places of duty during working hours, except by permission of the operator, or in cases involving the stoppage of the mine.

RIGHT TO HIRE AND DISCHARGE

(f) The right to hire and discharge, the management of the mine, and the direction of the working force, are vested exclusively in the operator, and the U. M. W. of A. shall not abridge this right. It is not the intention of this provision to encourage the discharge of employees, or the refusal of employment to applicants because of personal prejudice or activity in matters affecting the U. M. W. of A. If any employee shall be suspended or discharged by the company, and it is claimed that an injustice has been done him, an investigation to be conducted by the parties and in the manner set forth in paragraphs (a) and (b) of this section shall be taken up promptly, and, if it is proven that an injustice has been done, the operator shall reinstate said employee and pay him full compensation for the time he has been suspended and out of employment; provided, if no decision shall be rendered within five days the case shall be considered closed, in so far as compensation is concerned, unless said failure to arrive at a decision within five days is owing to delay on the part of the operator, in which case a maximum of ten days' compensation shall be paid.

(g) It is understood and agreed that there shall be no more than three members on the pit committee at any one time.

OUTSIDE DAY WAGE SCALE.

Fourteenth. The wages now being paid outside day labor at the various mines in this State, less a reduction of 5.55 per cent, shall constitute the wage scale for that class of labor during the life of this agreement; *Provided*, that no top man shall receive less than \$1.91 per day.

FATAL ACCIDENTS AND FUNERALS.

Fifteenth. In the event of an instantaneous death by accident in the mine, the miners and underground employees shall have the privilege of discontinuing work for the remainder of that day; but work, at the option of the operator, shall be resumed the day following and continue thereafter. In case the operator elects to operate the mine on the day of the funeral of the deceased, as above, or where death has resulted from an accident in the mine, the

individual miners and underground employes may, at their option, absent themselves from work for the purpose of attending such funeral, but not otherwise. And whether attending such funeral or not, each member of the U. M. W. of A. employed at the mine at which the deceased was employed, shall contribute 50 cents and the operator \$25.00 for the benefit of the family of the deceased, or his legal representatives, to be collected through the office of the company. In the event that the mines are thrown idle on account of the miners' or other employes' failure to report for work in the time intervening between the time of the accident and the funeral or on the day of the funeral, then the company shall not be called upon for the payment of the \$25.00 above referred to.

Except in case of fatal accidents as above, the mine shall in no case be thrown idle because of any death or funeral; but in the case of the death of an employe of the company or member of his family any individual miner may, at his option, absent himself from work for the purpose of attending such funeral, but not otherwise.

RESPONSIBILITY FOR TIMBERING AND DEAD WORK.

Sixteenth. (a) The scale of prices herein provided shall include, in ordinary conditions, the work required to load coal and properly timber the working places in the mine, and the operator shall be required to furnish the necessary props and timber in rooms or working face. And in long-wall mines, it shall include the proper mining of the coal and the brushing and care of the working places and roadway according to the present method and rules relating thereto, which shall continue unchanged.

(b) If any miner shall fail to properly timber, shoot and care for his working place, and such failure has entailed falls of slate, rock and the like, the miner whose fault has occasioned such damage, shall repair the same without compensation, and if such miner fails to repair such damage he may be discharged.

Any dispute that may arise as to the responsibility under this clause shall be adjusted by the pit committee and mine foreman, and in case of their failure to agree, shall be taken up for settlement under the 13th section of this agreement.

In cases where the mine manager directs the placing of cross bars to permanently secure the roadway, then, and in such cases only, the miner shall be paid at the current price for each cross bar when properly set.

The above does not contemplate any change from the ordinary method of timbering by the miner for his own safety.

CHECK OFF.

Seventeenth. The operators will recognize the pit committee in the discharge of its duties as herein specified, but not otherwise, and agree to check off union dues, assessments and fines from the miners and mine laborers, when desired, on proper individual or collective continuous order, and furnish to the miners' local representative a statement showing separately the total amount of dues, assessments and fines collected. When such collections are made,

card day shall be abolished. In case any fine is imposed the propriety of which is questioned, the amount of such fine shall be withheld by the operator until the question has been taken up for adjustment and a decision has been reached.

EMERGENCY WORK AND ORDINARY REPAIRS.

Eighteenth. The operators shall have the right in cases of emergency work or ordinary repairs to the plant, to employ in connection therewith such men as, in their judgment, are best acquainted with and suited to the work to be performed, except where men are permanently employed for such work. Blacksmiths and other skilled labor shall make any necessary repairs to machinery and boilers.

CONSTRUCTION AND EXTENSIVE REPAIRS.

Nineteenth. The erection of head frames, buildings, scales, machinery, railroad switches, etc., necessary for the completion of a plant to hoist coal, all being in the nature of construction work, are to be excluded from the jurisdiction of the United Mine Workers of America. Extensive repairs to or rebuilding the same class of work shall also be included in the same exception. The employes thereon to be excluded as above, when employed on such work only.

PENALTY FOR ABSENCE FROM WORK.

Twentieth. When any employe absents himself from his work for a period of two days, unless through sickness or by first having notified the mine managers and obtained his consent, he may be discharged.

MACHINE DIFFERENTIAL.

Twenty-first. (a) Except at the basing point, Danville the differential for machine mining throughout the State of Illinois shall be seven cents per ton less than the pick mining rate. It being understood and agreed that the machine mining rate shall include the snubbing of coal either by powder or wedge and sledge, as conditions may warrant, where chain machine is used; but it is understood that this condition shall not apply where two men have and work in one place only in the same shift, except at the option of the miner; and it shall also be optional with the miner which system of snubbing shall be followed. The division of the machine mining rate shall be fixed in joint sub-district meeting.

SHEARING MACHINE AND AIR OR ELECTRIC DRILLS.

(b) The established rates on shearing machines and air or electric drills as now existing, shall remain unchanged during the ensuing two years.

RULES FOR USE OF CAGE BY EMPLOYEES.

Twenty-second. Any underground employé not on hand so as to go down to his work before the hour for commencing work, shall not be entitled to go below except at the convenience of the company. When an employé is sick or injured he shall be given a cage at once. When a cage load of men comes to the bottom of the shaft who have been prevented from working by reason of falls or other things over which they have no control, they shall be given a cage at once. For the accommodation of individual employés, less than a cage load, who have been prevented from working as above, a cage shall be run mid-forenoon, noon and mid-afternoon, of each working day; provided, however, that the foregoing shall not be permitted to enable men to leave their work for other than the reasons stated above.

SHAFT SINKING.

Twenty-third. The scale for sinkers shall be two dollars and eighty-seven cents, and for shift leaders three dollars and eighteen cents per day.

The scale for top men handling dirt at sinking mines shall be the same as that of dumpers in the sub-district in which the mine is being sunk.

DEFINITION OF EIGHT-HOUR DAY FOR DAY LABOR.

Twenty-fourth. All classes of day labor are to work full eight hours, and the going to and coming from the respective working places is to be done on the day hand's own time. All company men shall perform whatever day labor the foreman may direct. An eight-hour day means eight hours' work in the mines at the usual working places, exclusive of noontime, for all classes of inside day labor. This shall be exclusive of the time required in reaching such working places in the morning and departing from same at night.

DRIVERS—RULES TO GOVERN.

Drivers shall take their mules to and from the stables, and the time required in so doing shall not include any part of the day's labor; their time beginning when they reach the change at which they receive empty cars—that is, the parting drivers at the shaft bottom and the inside drivers at the parting—and ending at the same places; but in no case shall a driver's time be docked while he is waiting for such cars at the points named. The inside drivers, at their option, may either walk to and from their parting or take with them, without compensation, either loaded or empty cars, to enable them to ride. This provision, however, shall not prevent the inside drivers from bringing to and taking from the bottom regular trips, if so directed by the operator, provided such work is done within eight hours.

HARNESSING AND UNHARNESSING MULES.

The methods at present existing covering the harnessing, unharnessing, feeding and caring for the mules, shall be continued throughout the life of this agreement; but in cases where any grievances exist in respect to the same, they shall be referred to the sub-district meetings for adjustment.

When the stables at which the mules are kept are located on the surface and the mules are taken in and out of the mines daily by the drivers, the question of additional compensation therefor, if any, is to be left to the sub-districts affected for adjustment at their joint sub-district meetings.

YARDAGE AND DEAD WORK.

Twenty-fifth. All yardage and dead work on which a scale has been established shall be reduced 5.55 per cent.

OPERATOR TO KEEP PLACES DRY AS PRACTICABLE.

Twenty-sixth. (a) The company shall keep the mine in as dry condition as practicable by keeping the water off the road and out of the working places. When a miner has to leave his working place on account of water, through the neglect of the company, they shall employ said miner doing company work when practicable, and provided that said miner is competent to do such work, or he will be given another working place until such water is taken out of his place.

WHERE TRACK IS LAID BY OPERATOR.

(b) Where it is an established condition or agreement that the track shall be laid by the company, and a miner has to leave his working place on account of such track not being laid through the neglect of the company, it shall employ said miner doing company work when practicable, provided said miner is competent to do such work, or he shall be given another place until such time as such track is laid in his place.

AMBULANCES, BANDAGES, ETC.

Twenty-seventh. The operators shall keep sufficient blankets, oil, bandages, etc., and provide suitable ambulance or conveyance readily available at each mine to properly convey injured persons to their homes after an accident.

EQUAL TURN.

Twenty-eighth. The operator shall see that an equal turn is offered each miner, and that he be given a fair chance to obtain the same. The checkweighman shall keep a turn bulletin for the turn-keeper's guidance. The drivers shall be subject to whomever

the mine manager shall designate as turn-keeper in pursuance hereof.

In mines where there is both hand and machine mining, an equal turn shall mean approximately the same turn to each man in the machine part of the mine, and approximately the same turn to each man doing hand work, but not necessarily the same to each hand miner as to each man working with the machines.

CONTRACT NOT TO BE VOIDED BY MINERS' CONSTITUTION OR RULES.

Twenty-ninth. This contract is in no case to be set aside because of any rules of the U. M. W. of A. now in force or which may hereafter be adopted; nor is this contract to be set aside by reason of any provision in their national, state or local constitutions.

NO LOCAL DEMANDS.

There shall be no demands made locally that are not specifically set forth in this

agreement, except as agreed to in joint sub-district meetings held prior to May 1, 1904. Where no sub-districts exist, local grievances shall be referred to the United Mine Workers' state executive board and the mine owners interested.

**UNITED MINE WORKERS OF AMERICA
DISTRICT NO. 12.**

HERMAN C. PERRY,
President.

WM. E. SMITH,
Vice-President.

W. D. RYAN,
Secretary-Treasurer.

**THE ILLINOIS COAL OPERATORS'
ASSOCIATION.**

O. L. GARRISON,
President.

E. T. BENT,
Secretary.

Springfield, Ill., April 4, 1904.

FIFTH ANNUAL REPORT

OF THE

BUREAU OF LABOR STATISTICS

OF THE

Illinois Free Employment Offices

FOR THE

YEAR ENDED OCTOBER 1, 1903.

DAVID ROSS, *Secretary*, Springfield.



SPRINGFIELD, ILL.
PHILLIPS BROS., STATE PRINTERS,
1904.

ILLINOIS FREE EMPLOYMENT OFFICES.

CHICAGO.

NORTH SIDE OFFICE, 259-261 N. Clark St., Turner Hall Building

D. M. BROTHERS, *Supt.*

THOS. DEVENISH, *Asst. Supt.*

MISS SELMA BOSTRUM, *Clerk.*

SOUTH SIDE OFFICE, 429-431 Wabash Avenue.

GEORGE W. GEARY, *Supt.*

ANGUS A. BARNES, *Asst. Supt.*

MISS MARGARET E. MAY, *Clerk.*

WEST SIDE OFFICE, S. W. Cor. Canal and Randolph Sts

S. P. REVERE, *Supt.*

P. J. MEANEY, *Asst. Supt.*

MISS LIZZIE HENNEBERRY, *Clerk.*

PEORIA.

OFFICE, Masonic Temple.

EDWARD E. WALKER, *Supt.*

DAVID CONIGISKY, *Asst. Supt.*

CHARLES S. EASTON, *Clerk.*

PREFACE.

The law creating the Illinois Free Employment Offices requires that the reports of the superintendents in charge of those offices be published in connection with the Annual Coal Report of the Bureau. In addition to this, it has been considered expedient, in view of the general interest manifested in the work of the offices, to publish a limited edition in the form here presented. Copies of this edition can be secured on application to the Secretary of the Bureau, David Ross, Springfield, or to the superintendent of either of the offices.

FIFTH ANNUAL REPORT
OF THE
Illinois Free Employment Offices
1903

(ESTABLISHED AUGUST 2, 1899.)

This is the fifth annual report of the Illinois Free Employment offices for the year ended Oct. 1, 1903.

The work of these offices still continues successfully; their popularity with working people seeking employment and persons desiring to employ help is unabated. The superintendents of the offices report that they have not only their regular customers wanting help, but receive many additional requests from large employers of labor, as well as from numerous persons needing only one person, man or woman, a boy or girl.

The following table shows the result of the work of the four offices from the date of their organization to Oct. 1, 1903:

YEAR.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
	Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
*1899.....	13,097	6,497	6,600	12,370	3,873
1900.....	37,285	31,218	6,067	35,542	4,324
1901.....	27,605	23,996	3,609	28,124	4,128
1902.....	44,900	40,181	4,719	47,497	7,316
1903.....	43,510	39,227	4,283	47,559	8,382
Total.....	166,397	141,119	25,278	169,092	27,973

* Nine weeks.

The total number applying for employment at the close of the fifth year was 166,397; of this number 141,119 or 84.81 per cent were secured positions. The total number filing applications for help was 169,092, of which 83.46 per cent were supplied with the help sought for.

THE RECORD OF THE FOUR OFFICES FOR THE YEAR ENDED OCTOBER
1, 1903.

The combined achievement of the offices in securing positions for applicants for employment is a trifle less than last year, although some of the offices exceeded the record of that year.

The following table gives the record of all the offices for the year:

TABLE 1—*Showing the Combined Business of the Four Offices for the year.*

OFFICES.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
	Number filed.	Number of positions secured.	Number unfilled.	Number filed.	Number unfilled.
North Side Office—Males.....	6,019	5,883	136	7,648	1,765
North Side Office—Females.....	4,065	3,965	100	5,254	1,289
Totals	10,084	*9,848	236	12,902	3,054
South Side Office—Males	11,835	10,798	1,037	12,087	1,289
South Side Office—Females	5,666	5,394	272	7,480	2,086
Totals	17,501	†16,192	1,309	19,567	3,375
West Side Office—Males.....	6,470	5,001	1,469	5,379	378
West Side Office—Females.....	2,431	2,012	419	2,974	962
Totals	8,901	†7,013	1,888	8,353	1,340
Peoria Office—Males.....	5,090	4,653	437	4,832	179
Peoria Office—Females	1,934	1,521	413	1,905	384
Totals	7,024	†6,174	850	6,737	563
Total Males—Four Offices	29,414	26,335	3,079	29,946	3,611
Total Females—Four Offices	14,096	12,892	1,204	17,613	4,721
Grand totals	43,510	†39,227	4,283	47,559	8,332

* Of this number 191 males and 169 females, a total of 360, were secured positions on applications filed last year.

† Of this number 53 males and 70 females, a total of 123, were secured positions on applications filed last year.

‡ Of this number 417 males and 18 females, a total of 435, were secured positions on applications filed last year.

§ Of this number 16 females were secured positions on applications filed last year.

¶ Of this number 661 males and 273 females, a total of 934, were secured positions on applications filed last year.

The final line of the table shows that during the year 43,510 registered as applicants for employment, and that 47,559 employers registered as seeking to employ persons willing to work. By reference

to the bottom notes of the table it will be seen that 934 applications for employment were brought forward from applications filed last year; of these 661 were males and 273 females.

These applications brought forward increase the total applications handled to 44,444; of this number 30,075 or 67.67 per cent were males and 14,369 or 32.33 per cent females. Of this total number applying for employment 39,227 or 88.26 per cent were provided with positions; of these, 26,335 or 87.56 per cent were males and 14,369 or 89.72 per cent were females.

Directing attention to the applications of employers, it is shown that 47,559 registered as wanting to employ labor; of this number 29,946 or 62.97 per cent was for male help and 17,613 or 37.03 per cent for female help. Continuing the comparison, it is found that, of the 47,559 employers applying, 82.48 per cent were furnished the help sought after; 87.94 per cent of the applications for male workers were supplied and 73.20 per cent of the females.

The following table presents the percentages of each office and for the four offices:

TABLE 2--*Percentages of Positions Secured and Percentages of Help Furnished, both Male and Female.*

OFFICE.	PERCENTAGE OF POSITIONS SECURED APPLICANTS FOR EMPLOYMENT.			PERCENTAGE OF APPLICATIONS FOR HELP FURNISHED.		
	Males.	Females.	Both sexes.	Males.	Females.	Both sexes.
North Side Office	94.57	93.38	94.09	76.92	75.47	76.33
South Side Office	90.79	93.96	91.82	89.34	72.11	82.75
West Side Office	70.85	82.02	73.90	92.97	67.65	83.96
Peoria Office	91.41	77.82	87.67	96.30	79.84	91.64
The four offices.....	87.28	89.52	88.01	87.94	73.20	82.48

The percentages here shown for positions secured for applicants for employment are confined to the work of the offices for the fiscal year, while the percentages of the applications for help furnished include the numbers furnished employment brought forward from last year.

Of the Chicago offices the North Side office furnished the largest percentage of positions secured for males, and the South Side office the largest for females. For applications for help the West Side office supplied the largest per cent of males and the North Side office the largest per cent of females, while the Peoria office, in this respect, exceeded any of the others.

The work of all the offices in placing applicants for employment in positions shows increased percentages over last year, while for help supplied the percentages are somewhat less. Following is the showing:

PERCENTAGES.

YEAR.	POSITIONS SECURED.			HELP FURNISHED.		
	Males.	Females	Both sexes.	Males.	Females.	Both sexes.
1902	84.85	89.24	86.28	88.16	78.35	84.60
1903	87.28	89.52	88.01	87.94	73.20	82.48

While the percentage of positions secured to female applicants somewhat exceeds that for males, the percentage of female help furnished employers falls considerably below that of males.

APPLICATIONS FOR EMPLOYMENT.

The table following gives the applications for employment by classified occupations for the four offices for the year:

APPLICATIONS FOR EMPLOYMENT.

TABLE 3—*Work of All the Offices—Three in Chicago, One in Peoria—Receiving Applications for Employment.*

Males.

Number.	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Grand totals	10,084	17,501	8,901	7,024	43,510
	Males	6,019	11,835	6,470	5,090	29,414
	Females	4,065	5,666	2,431	1,934	14,096
	Total males	6,019	11,835	6,470	5,090	29,414
1	Agents		32	1	2	35
2	Apprentices			34	19	53
3	Artists		7			7
4	Attendants			1	1	2
5	Bakers	2	30	5	24	61
6	Bakers' helpers			1		1
7	Barbers		3	1	1	5
8	Barnmen	63	143	17	113	336
9	Bartenders	12	23	7	2	44
10	Bench hands	1	5	15		22
11	Bill posters		1			1
12	Blacksmiths	106	15	13	15	149
13	Blacksmith helpers		12	5	1	18
14	Boilermakers	5	14	3	16	38
15	Boilermakers' helpers				1	1
16	Bookbinders		2	1		3

Table 3—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
17	Bookkeepers	2	42	11	11	66
18	Bootblacks		4			4
19	Boxmakers		11			11
20	Boys	392		62	9	463
21	Boys, bus			2		2
22	Boys, bell		31	4		35
23	Boys, cash		47			47
24	Boys, delivery		98	2	93	193
25	Boys, elevator				3	3
26	Boys, errand		68	10	9	87
27	Boys, factory				79	79
28	Boys, office		38	39	14	91
29	Brass finishers			7	1	8
30	Bricklayers		3			3
31	Bridge builders		4			4
32	Butchers	2	23	7	7	39
33	Butlers	3	6			9
34	Cabinet makers		6	1	4	11
35	Calclminers		6			6
36	Candy makers				1	1
37	Canvassers	10			16	26
38	Carpenters	178	61	29	38	306
39	Carpet layers		16			16
40	Carriage and wagon washers	2	24	15		41
41	Carriage painters				2	2
42	Cashiers		3			3
43	Checkers		3	1		4
44	Cigar makers		2			2
45	Cleaners, harness		18	2		20
46	Clerks, bill		2	1		3
47	Clerks, drugs		3		4	7
48	Clerks, dry goods		1	1	13	15
49	Clerks, grocery		22	14	2	38
50	Clerks, hotel			8	1	9
51	Clerks, office		15			15
52	Clerks, shipping		27	43	1	71
53	Clerks, general	56	83	41		180
54	Clerks, stock				3	3
55	Coachmen	31	29	10	15	85
56	Coal miners		46	8	34	88
57	Coal passers			31		31
58	Collectors	2	11	11	19	43
59	Cooks	57	313	27	90	487
60	Coopers		5	2		7
61	Conductors	5		2	3	10
62	Coremakers	11	3	16	1	31
63	Dairymen				4	4
64	Deck hands		11			11
65	Distributors		8	2	14	24
66	Dishwashers	50	679	33	63	815
67	Doormen		3			3
68	Draughtsmen			2		2
69	Drill pressmen	5		39	12	56
70	Drivers	315	1	113	24	453
71	Druggists			1		1
72	Electricians		16	29	2	47
73	Elevatormen	13	110	42		165
74	Employés, wholesale house			16		16
75	Engineers	15	45	30	24	114
76	Engine wipers				1	1
77	Factory hands	650	382	698	206	1,936
78	Farm hands	99	368	179	122	768
79	Fillers				2	2
80	Firemen	13	81	67	48	209
81	Florists		16		1	1
82	Flour packers				1	1
83	Foremen			5		5
84	Furnace tenders			1		1
85	Gardeners	3	28	5	9	45
86	Gasfitters		10			10
87	Glaziers				2	2
88	Harness makers		17		2	19
89	Harvest hands				12	12

Table 3--Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
90	Horseshoers			1		1
91	Hostlers		39	28	3	70
92	Housemen	235	567	54	44	909
93	Iron workers	1		20	10	31
94	Janitors	55	216	56	45	392
95	Kitchenwork	48	210	3	15	276
96	Laborers	2,453	1,908	3,310	2,862	10,533
97	Laborers, railroad		2,604	3	377	2,984
98	Lathe hands	4		19	2	25
99	Lathers			1		1
100	Laundrymen	2	80	2	5	89
101	Linemen				1	1
102	Machine hands	3	9	79		91
103	Machinists	164	40	96	37	337
104	Massage workers		2			2
105	Meat cutters and slaughterers				2	2
106	Mechanics			1		1
107	Merchants		1			1
108	Metal workers			1		1
109	Millers		3		1	4
110	Millwrights			1	2	3
111	Molders		8	9	16	33
112	Models		2			2
113	Motormen	1				1
114	Nurses		6	3		9
115	Office help	4		43	24	71
116	Oilers			5		5
117	Packers	29	52	22		103
118	Painters	82	52	16	12	162
119	Paper hangers		6			6
120	Pantrymen	3	8	1	2	14
121	Pan washers				8	8
122	Paper cutters			1		1
123	Pattern makers				1	1
124	Photographers		1	2		3
125	Pin setters		25			25
126	Plano makers			2		2
127	Pipe fitters				1	1
128	Plasterers			1		1
129	Plumbers	1		1	2	4
130	Polishers, metal		8			8
131	Polishers	1		3		4
132	Porters	150	1,001	126	60	1,337
133	Pressers	1		1		2
134	Pressmen		2	3		5
135	Printers	1	4	4		9
136	Punch press hands			10		10
137	Roofers		6	1		7
138	Salesmen	1	23	21	41	86
139	Samplers				1	1
140	Sawyers			1		1
141	Shoemakers	1	3	2		6
142	Sectionmen		5			5
143	Solicitors	3	13	3	30	49
144	Steam fitters	1	4	3	6	14
145	Stenographers	2	11	2	3	18
146	Stock men	13	293			306
147	Stock keepers			2		2
148	Supers		26			26
149	Surveyors		9			9
150	Stone masons			2		2
151	Stovemmen			1	4	5
152	Tailors	1	8			9
153	Teachers—not stated		5			5
154	Teamsters	419	221	112	142	894
155	Telegraphers		1			1
156	Time keepers			3		3
157	Turnsmiths		14	1	2	17
158	Tool makers			1		1
159	Trainmen		8			8
160	Truckmen			9	14	23
161	Ushers		20			20

Table 3—Concluded.

Number.	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
162	Upholsterers.....		11	1	3	15
163	Walters.....	26	611	35	18	690
164	Watchmen.....	12	62	45	13	132
165	Weavers.....				2	2
166	Weldermen.....			1		1
167	Whitewashers.....	151				151
168	Window washers.....		247	109		356
169	Wood choppers.....		2			3
170	Wood workers.....	23		6	11	40
171	Yardmen.....	3	241	13	62	319
172	Miscellaneous—not classified.....	22		393		415

Females.

	Total females.....	4,065	5,666	2,431	1,934	14,096
1	Addressers.....			11		11
2	Agents.....		5		1	6
3	Attendants.....				2	2
4	Bookbinders.....		1			1
5	Bookkeepers.....	7	4	3	18	32
6	Bottle labelers.....			11		11
7	Canvassers.....			5	1	6
8	Cashiers.....	2	13	12	8	35
9	Clerks.....	18	9	17	12	56
10	Collectors.....				5	5
11	Chambermaids.....	278	487	200	65	1,020
12	Companions.....	2		1	5	8
13	Cooks.....	321	520	137	93	1,071
14	Day workers.....	412	168	171	86	837
15	Demonstrators.....		7	1		8
16	Dining room help.....	122		78	104	304
17	Dishwashers.....	289	517	95	101	1,002
18	Distributors.....				7	7
19	Domestics.....			399		398
20	Dressmakers.....			1		1
21	Factory work.....	94	187	408	80	769
22	Folders, circulars.....			11		11
23	General housework.....	1,612	1,446		898	3,956
24	Governesses.....		1	1		2
25	Hall girls.....		13			13
26	Hotel help.....				10	10
27	Housekeepers.....	67	119	70	63	319
28	Janitresses.....	8	4	1	8	21
29	Kitchen help.....	313	459	103	43	948
30	Lady's maid.....		1	1	2	4
31	Laundresses.....	47	228	77	30	382
32	Linen room.....		6			6
33	Matrons.....	2		1	1	4
34	Nurses.....	72	62	30	18	182
35	Nurse girls.....				27	27
36	Office work.....	10	75	10	59	154
37	Pantry work.....	27	91	50	11	179
38	Pastry cook.....				2	2
39	Reception service.....		3			3
40	Saleswomen.....	6	5		13	24
41	Scrubwomen.....	100	517	308	3	928
42	Seamstresses.....	19	23	51	23	116
43	Second work.....	153	100	15	66	334
44	Silver girls.....				4	4
45	Stenographers.....	11	43	9	53	116
46	Tailors.....				1	1
47	Teachers—not stated.....		2	1		3
48	Telephone operators.....				6	6
49	Vegetable cleaners.....				6	6
50	Waitresses.....	66	520	89	1	676
51	Wrapper, bundle.....			1		1
52	Washerwomen.....				8	8
53	Not stated.....	7		53		60

It will be noted that the 29,414 male applicants represented 171 occupations, while the 14,096 applications by females stand for 52 occupations. The total number of applications registered was 43,510, of these the North Side office recorded 23.18 per cent, the South Side office 40.22 per cent, the West Side office 20.46 per cent and the Peoria office 16.14 per cent.

APPLICATIONS FOR HELP.

The following table gives the applications made by employers seeking to obtain help:

APPLICATIONS FOR HELP.

TABLE 4 — *Work of all the Offices—three in Chicago, one in Peoria—Receiving Applications for Help.*

Males.

Number.	OCCUPATIONS.	APPLICATIONS FOR HELP TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Grand totals	12,902	19,567	8,353	6,737	47,559
	Males	7,648	12,087	5,379	4,832	29,946
	Females	5,254	7,480	2,974	1,905	17,613
	Totals. males.....	7,648	12,087	5,379	4,832	29,946
1	Agents.....		18		2	20
2	Apprentices.....			5	17	22
3	Attendants.....			1	1	2
4	Bakers.....	1	21		13	35
5	Baker's helpers.....			1		1
6	Barbers.....		8			9
7	Barnmen.....	69	129	14	109	321
8	Bartenders.....	9	13	2	2	26
9	Bench hands.....	1	4	5		10
10	Bill posters.....		1			1
11	Blacksmiths.....	128	18	3	7	156
12	Blacksmith helpers.....		11	5	1	17
13	Boller makers.....	8	23	7	14	52
14	Bookbinders.....		2			2
15	Bookkeepers.....		6	2	1	9
16	Bootblacks.....		4			4
17	Boxmakers.....		8			8
18	Boys.....	564		63	8	640
19	Boys, bell.....		40			40
20	Boys, bus.....			1		1
21	Boys, cash.....		55			55
22	Boys, delivery.....		103	1	78	182
23	Boys, elevator.....				3	3
24	Boys, errand.....		124	8	7	139
25	Boys, factory.....				72	72
26	Boys, office.....		70	11	12	93
27	Brass finishers.....				1	1
28	Bricklayers.....		4			4
29	Bridge builders.....		4			4
30	Butchers.....	2	19		6	27
31	Butlers.....	4	4			8
32	Cabinet makers.....		4		3	7
33	Calclminers.....		6			6
34	Candy makers.....				1	1
35	Carpet layers.....		17			17
36	Canvassers.....	36			16	52

Table 4—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR HELP TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
37	Carpenters.....	213	59	15	12	299
38	Carriage and wagon washers.....	2	23	16		41
39	Carriage painters.....				3	3
40	Cashiers.....		3			3
41	Checkers.....		3			3
42	Cigar makers.....		2			2
43	Cleaners, harness.....		22	2		24
44	Clerks, bill.....		4			4
45	Clerks, drug.....		1	1	2	4
46	Clerks, dry goods.....				7	7
47	Clerks, grocery.....		7	5	1	13
48	Clerks, hotel.....				1	1
49	Clerks, office.....		9			9
50	Clerks, shipping.....		21	1		22
51	Clerks, stock.....				2	2
52	Clerks, general.....	31	11	2		44
53	Coachmen.....	32	21	6	8	67
54	Coal miners.....	50	70	6	32	158
55	Coal passers.....			24		24
56	Collectors.....	1	4		7	12
57	Cooks.....	62	299	23	66	450
58	Coopers.....		5			5
59	Conductors.....	5			5	10
60	Core makers.....	18	3	13	1	35
61	Dairymen.....				5	5
62	Deckhands.....		14			14
63	Dishwashers.....	55	651	30	50	786
64	Doormen.....		2			2
65	Distributors.....		7		14	21
66	Drill pressmen.....	5		1	11	17
67	Drivers.....	384	1	56	18	459
68	Electricians.....		9		2	11
69	Elevatormen.....	12	79	7		98
70	Engineers.....	10	16	7	9	42
71	Engine wipers.....				1	1
72	Factory hands.....	754	468	530	177	1,929
73	Farm hands.....	116	488	173	110	887
74	Fillers.....				2	2
75	Firemen.....	8	63	20	25	116
76	Florists.....		14		1	15
77	Foremen.....			1		1
78	Furnace tenders.....		1	1		1
79	Gardeners.....	3	26	2	8	39
80	Gas fitters.....		7			7
81	Glass workers.....	3		1		4
82	Glaziers.....				2	2
83	Harness makers.....	5	22		2	29
84	Harvest hands.....				12	12
85	Hostlers.....		35	28	3	66
86	Housemen.....	245	533	34	35	847
87	Iron workers.....			15	12	27
88	Janitors.....	61	180	26	31	298
89	Kitchen work.....	61	205	1	31	288
90	Laborers.....	3,303	2,240	3,408	2,954	11,905
91	Laborers, railroad.....		2,740		388	3,128
92	Lathe hands.....	4		3	1	8
93	Laundrymen.....	3	69	1	3	76
94	Machine hands.....	2	7	10		19
95	Machinists.....	199	42	32	23	296
96	Merchants.....		2			2
97	Millers.....		3		1	4
98	Millwrights.....	1			2	3
99	Molders.....	16	34	32	9	91
100	Models.....		2			2
101	Motormen.....	2				2
102	Nurses.....		5			5
103	Office help.....	2		2	5	9
104	Packers.....	32	39	4		75
105	Painters.....	108	53	9	10	180
106	Paper hangers.....		8			8
107	Pantrymen.....	4	7	1	2	14

Table 4—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR HELP TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
108	Paper cutters			1		1
109	Panwashers				5	5
110	Pin setters		24			24
111	Plumbers	1	3			4
112	Polishers, metal		17			17
113	Porters	147	912	104	52	1,215
114	Pressers	1		1		2
115	Pressmen			3		3
116	Printers	1	3			4
117	Roofers		6			6
118	Salesmen		29		16	45
119	Samplers				1	1
120	Shoemakers		3			3
121	Sectionmen		5			5
122	Solicitors	4	28	6	29	67
123	Steamfitters	2	3		4	9
124	Stenographers	2	5		1	8
125	Stockmen	15	293			308
126	Supers		25			25
127	Stovemcn			1	3	4
128	Surveyors		8			8
129	Tailors		6			6
130	Teachers		1			1
131	Teamsters	543	196	78	137	954
132	Telegraphers		1			1
133	Tinsmiths		23			23
134	Trainmen		8			8
135	Truckmen			4	14	18
136	Ushers		20			20
137	Upholsterers		17	1	3	21
138	Walters	28	584	32	11	655
139	Watchmen	11	25	7	2	45
140	Weavers				4	4
141	Whitewashers	205				205
142	Window washers		250	117		367
143	Wood choppers		16			16
144	Woodworkers	32		3	9	44
145	Yardmen	4	222	14	61	301
146	Miscellaneous, not classified.....	28		323		351

Females.

1	Addressers			25		25
2	Agents		10		3	13
3	Attendants				4	4
4	Barbers			1		1
5	Bookkeepers	4	2		3	9
6	Bottle labelers			15		15
7	Canvassers	5		15	1	21
8	Cashiers	1	6		9	16
9	Clerks	14	6	6	6	32
10	Collectors				2	2
11	Chambermaids	336	582	190	51	1,159
12	Companions	1			3	4
13	Cooks	410	660	125	134	1,329
14	Dayworkers	414	172	43	28	657
15	Demonstrators		5			5
16	Dining room help	216		80	123	419
17	Dishwashers	333	583	95	92	1,103
18	Distributors				4	4
19	Domestics			879		879
20	Factory work	259	260	500	49	1,068
21	Folders, circulars			15		15
22	General housework	2,049	2,433		1,058	5,540
23	Governesses		1			1
24	Hall girls		15			15
25	Hotel help				7	7
26	Housekeepers	71	146	43	46	306

Table 4—Concluded.

Number.	OCCUPATIONS.	APPLICATIONS FOR HELP TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
27	Janitresses.....	8	3	.....	4	15
28	Kitchen help.....	393	581	120	59	1,153
29	Lady's maid.....	.....	2	.....	2	4
30	Laundresses.....	70	284	59	26	469
31	Linen room help.....	.....	4	.....	.....	4
32	Matrons.....	2	.....	.....	.....	2
33	Nurses.....	88	75	28	16	207
34	Nurse girls.....	.....	.....	.....	24	24
35	Office help.....	7	49	.....	11	67
36	Pantry work.....	30	104	40	15	189
37	Pastry cooks.....	.....	.....	.....	2	2
38	Reception service.....	.....	2	.....	.....	2
39	Saleswomen.....	5	.....	.....	10	15
40	Scrubwomen.....	145	578	330	10	1,063
41	Seamstresses.....	57	24	53	14	148
42	Second work.....	181	145	26	60	412
43	Silver girls.....	.....	.....	.....	6	6
44	Solicitors.....	.....	6	.....	.....	6
45	Stenographers.....	5	7	2	10	24
46	Telephone girls.....	.....	.....	.....	1	1
47	Teachers, not stated.....	1	.....	.....	.....	1
48	Vegetable cleaners.....	.....	.....	.....	8	8
49	Waitresses.....	156	735	125	1	957
50	Washerwomen.....	.....	.....	.....	3	3
51	Wrappers, bundle.....	.....	.....	1	.....	1
52	Miscellaneous, occupation not stated..	13	.....	128	.....	141

The total number of applications for help during the year was 47,559; of this number 29,946 were for male help, represented in 145 occupations, and 16,613 for female help in 51 occupations. Of the total number of applications for help, the North Side office received 27.13 per cent, the South Side 41.14 per cent, the West Side 17.56 per cent, the Peoria office 14.17 per cent.

POSITIONS SECURED.

The table following is a counterpart of the two preceding tables, and gives the positions secured by all of the offices during the year:

POSITIONS SECURED.

TABLE 5--*Work of all the Offices, Three in Chicago and One in Peoria.*

Males.

Number.	OCCUPATIONS.	POSITIONS SECURED BY OFFICES--				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Totals	9,845	16,192	7,013	6,174	39,227
	Males	5,883	10,798	5,001	4,653	26,335
	Females	3,965	5,394	2,012	1,521	12,892
	Total males	5,883	10,798	5,001	4,653	26,335
	Males	5,692	10,745	4,584	4,653	25,674
	Positions filled from previous applications	191	53	417	.....	661
1	Agents .....	.....	13	.....	2	15
2	Apprentices .....	.....	.....	4	17	21
3	Attendants .....	.....	.....	1	1	2
4	Bakers	1	20	.....	13	34
5	Bakers' helpers .....	.....	.....	1	.....	1
6	Barbers .....	.....	3	1	.....	4
7	Barmen	57	121	12	109	299
8	Bartenders	8	12	2	2	24
9	Bench hands	1	4	4	.....	9
10	Bill posters .....	.....	1	.....	.....	1
11	Blacksmiths	105	12	3	7	127
12	Blacksmith helpers .....	.....	11	2	1	14
13	Boiler makers .....	.....	13	1	14	28
14	Bookbinders .....	.....	2	.....	.....	2
15	Bookkeepers .....	.....	6	2	1	9
16	Bootblacks .....	.....	4	4	.....	4
17	Boxmakers .....	.....	8	.....	.....	8
18	Boys	375	.....	53	8	436
19	Boys, bell .....	.....	29	.....	.....	29
20	Boys, cash .....	.....	43	.....	.....	43
21	Boys, delivery .....	.....	96	1	78	175
22	Boys, elevator .....	.....	.....	.....	3	3
23	Boys, errand .....	.....	60	6	7	73
24	Boys, factory .....	.....	.....	.....	72	72
25	Boys, office .....	.....	33	6	12	51
26	Brass finishers .....	.....	.....	.....	1	1
27	Bricklayers .....	.....	3	.....	.....	3
28	Bridge builders .....	.....	4	.....	.....	4
29	Butchers	2	17	.....	6	25
30	Butlers	2	3	.....	.....	6
31	Cabinet makers .....	.....	4	.....	3	6
32	Calsoniners .....	.....	5	.....	.....	5
33	Candy makers .....	.....	.....	.....	1	1
34	Canvassers	10	.....	.....	16	26
35	Carpet layers .....	.....	15	.....	.....	15
36	Carpenters	172	51	10	12	245
37	Carriage and wagon washers	1	23	14	.....	38
38	Carriage painters .....	.....	.....	.....	2	2
39	Cashiers .....	.....	3	.....	.....	3
40	Checkers .....	.....	3	.....	.....	3
41	Cigar makers .....	.....	2	.....	.....	2
42	Cleaners, harness .....	.....	18	2	.....	20
43	Clerks, bill .....	.....	2	.....	.....	2
44	Clerks, drug .....	.....	1	.....	2	3
45	Clerks, dry goods .....	.....	.....	.....	7	7
46	Clerks, grocery .....	.....	7	5	1	13
47	Clerks, hotel .....	.....	.....	.....	1	1
48	Clerks, office .....	.....	8	.....	.....	8
49	Clerks, shipping .....	.....	21	1	.....	22
50	Clerks, stock .....	.....	.....	.....	2	2
51	Clerks, general	27	10	1	.....	38
52	Coachmen	25	21	5	8	59

Table 5—Continued

Number.	OCCUPATIONS.	POSITIONS SECURED BY OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
53	Coal miners		44	6	32	82
54	Coal passers			24		24
55	Collectors	1	4		7	12
56	Cooks	37	267	14	66	384
57	Coopers		5			5
58	Conductors	5			3	8
59	Core makers	11	3	1	1	16
60	Dairymen				4	4
61	Deck hands		11			11
62	Dishwashers	44	636	23	50	753
63	Distributors		7		14	21
64	Doormen		2			2
65	Drill pressmen	5		1	11	17
66	Drivers	312	1	47	18	378
67	Electricians		9		2	11
68	Elevatormen	10	78	7		95
69	Engineers	8	14	4	9	35
70	Engine wipers				1	1
71	Factory hands	618	373	485	163	1,639
72	Farm hands	84	343	125	110	662
73	Filers				2	2
74	Firemen	8	62	19	25	114
75	Florists		14		1	15
76	Foremen			1		1
77	Gardeners		24	1	7	32
78	Gas fitters		7			7
79	Glaziers				2	2
80	Harness makers		17		2	19
81	Harvest hands				12	12
82	Hostlers		35	23	3	61
83	Housemen	206	520	27	35	788
84	Iron workers			14	10	24
85	Janitors	45	178	20	31	274
86	Kitchen work	38	199	1	12	250
87	Laborers	2,415	1,868	3,052	2,539	10,174
88	Laborers, railroad		2,537		376	2,913
89	Lathe hands		4	3	1	8
90	Laundrymen	2	69	1	3	75
91	Machine hands	1	7	9		17
92	Machinists	153	27	22	21	223
93	Merchants		1			1
94	Millers		3		1	4
95	Millwrights				2	2
96	Molders		7	5	9	21
97	Models		2			2
98	Motormen	1				1
99	Nurses		5			5
100	Office help	1			5	8
101	Packers	26	39	2		67
102	Painters	78	51	6	9	144
103	Paper hangers		4			4
104	Pantrymen	3	7	1	2	13
105	Pan washers				5	5
106	Pin setters		24			24
107	Polishers, metal		8			8
108	Porters	137	891	89	52	1,169
109	Pressmen			2		2
110	Printers	1	3			4
111	Roofers		6			6
112	Salesmen		13		16	29
113	Samplers				1	1
114	Section men		5			5
115	Shoemakers		3			3
116	Solicitors	2	12	2	28	44
117	Steam fitters	1	3		4	8
118	Stenographers	1	4		1	6
119	Stockmen	12	272			284
120	Supers		25			25
121	Stovemmen			1	3	4
122	Surveyors		8			8
123	Tailors		6			6
124	Teachers		1			1
125	Teamsters	415	191	76	131	813

Table 5—Concluded.

Number.	OCCUPATIONS.	POSITIONS SECURED BY OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
126	Tinsmiths		12			12
127	Trainmen		9			9
128	Truckmen			2	14	16
129	Ushers		20			20
130	Upholsterers		10		3	13
131	Waiters	21	549	27	11	608
132	Watchmen	7	23	7	2	39
133	Weavers				2	2
134	Whitewashers	151				151
135	Window washers		233	89		322
136	Wood choppers		3			3
137	Wood workers	23			9	32
138	Yardmen	3	220	12	61	296
139	Miscellaneous, not classified	16		194		210

Females.

	Total.....	3,965	5,394	2,012	1,521	12,892
Females.....	3,796	5,324	1,994	1,505	12,619	
From previous applications.....	169	70	18	16	273	
1 Addressers.....			10		10	
2 Agents.....		4		2	6	
3 Attendants.....				2	2	
4 Bookkeepers.....	2			3	5	
5 Bottle labelers.....			11		11	
6 Canvassers.....			5		5	
7 Cashiers.....		5		7	12	
8 Clerks.....	12	4	4	4	24	
9 Collectors.....				2	2	
10 Chambermaids.....	257	471	170	42	940	
11 Companions.....				3	3	
12 Cooks.....	302	501	89	83	975	
13 Dayworkers.....	401	168	40	28	637	
14 Demonstrators.....		2			2	
15 Dining room help.....	113		67	88	268	
16 Dishwashers.....	277	515	79	79	950	
17 Distributors.....				4	4	
18 Domesticates.....			386		386	
19 Factory work.....	80	181	373	41	675	
20 Folders, circulars.....			11		11	
21 General housework.....	1,574	1,333		860	3,767	
22 Governesses.....		1			1	
23 Hall girls.....		12			12	
24 Hotel help.....				6	6	
25 Housekeepers.....	49	69	26	33	177	
26 Janitresses.....	8	3		4	15	
27 Kitchen help.....	301	459	103	42	935	
28 Lady's maids.....		1		2	3	
29 Laundresses.....	36	225	69	21	351	
30 Linen room help.....		4			4	
31 Matrons.....	1				1	
32 Nurses.....	58	59	19	10	146	
33 Nurse girls.....				20	20	
34 Office work.....	4	43		11	58	
35 Pantry work.....	23	89	38	10	160	
36 Pastry cooks.....				2	2	
37 Reception service.....		1			1	
38 Saleswomen.....	5			8	13	
39 Scrub women.....	89	505	308	3	905	
40 Seamstresses.....	11	18	35	9	73	
41 Second work.....	132	100	10	51	293	
42 Silver girls.....				4	4	
43 Stenographers.....	2	6	1	10	19	
44 Telephone girls.....				1	1	
45 Vegetable cleaners.....				6	6	
46 Waitresses.....	54	515	89	1	659	
47 Washerwomen.....				3	3	
48 Wrappers.....			1		1	
49 Miscellaneous, occupation not stated..	5		50		55	

This table records the net results of the year's work of the four offices, showing that a total of 39,227 persons were secured positions for employment, thus supplying a like number of persons seeking help. Of this number 26,335 were males distributed in 138 different occupations, while 12 892 were females placed in 48 different occupations.

The proportion of this work performed by the four offices was, for the North Side office 25.11 per cent; South Side 41.28 per cent; West Side 17.88 per cent, and Peoria office 15.73 per cent. For a closer comparison of the work of the four offices the following table of percentages is presented:

Offices.	PERCENTAGES OF—		
	Applications for Employment.	Applications for Help.	Positions Secured.
North Side	23.18	27.13	25.11
South Side	40.22	41.14	41.28
West Side.....	20.46	17.56	17.88
Peoria	15.14	14.17	15.73
Total	100.00	100.00	100.00

The following table presents the combined work of all the offices for the year, showing the applications filed for employment and help and the positions secured in all the occupations represented, also the percentages secured to each class of applications:

TABLE 6—*Number of Applications for Employment, Applications for Help, Positions Secured, Also Percentages of Positions Secured Applicants for Employment and Applicants for Help.*

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
	Grand totals	43,510	47,559	*39,227	88.01	82.48
	Males	29,414	29,946	†26,335	87.28	87.94
	Females	14,096	17,613	†12,892	89.52	75.20
	MALES	29,414	29,946	26,335	87.28	87.94
1	Agents	35	20	15	42.86	75.00
2	Apprentices	53	22	21	41.51	39.62
3	Artists.....	7				

Table 6—Continued

Number.	OCCUPATIONS	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
4	Attendants.....	2	2	2	100.00	100.00
5	Bakers.....	61	35	34	55.64	57.38
6	Bakers' helpers.....	1	1	1	100.00	100.00
7	Barbers.....	5	9	4	80.00	44.44
8	Barnmen.....	336	321	299	88.99	93.15
9	Bartenders.....	44	26	24	54.55	92.31
10	Bench hands.....	22	10	9	40.91	90.00
11	Bill posters.....	1	1	1	100.00	100.00
12	Blacksmiths.....	149	156	127	85.24	81.41
13	Blacksmith helpers.....	18	17	14	77.77	94.44
14	Boilermakers.....	38	52	28	73.68	53.85
15	Boilermakers' helpers.....	1				
16	Bookbinders.....	3	2	2	66.66	100.00
17	Bookkeepers.....	66	9	9	13.64	13.64
18	Bootblacks.....	4	4	4	100.00	100.00
19	Boxmakers.....	11	8	8	72.72	72.72
20	Boys.....	463	640	436	95.46	68.03
21	Boys, bell.....	35	40	29	82.86	72.50
22	Boys, bus.....	2	1			
23	Boys, cash.....	47	55	43	91.49	78.18
24	Boys, delivery.....	193	182	175	90.67	96.54
25	Boys, elevator.....	3	3	3	100.00	100.00
26	Boys, errand.....	87	139	73	83.91	52.52
27	Boys, factory.....	79	72	72	91.14	100.00
28	Boys, office.....	91	93	51	56.04	54.84
29	Brass finishers.....	8	1	1	12.50	100.00
30	Bricklayers.....	3	4	3	100.00	75.00
31	Bridge builders.....	4	4	4	100.00	100.00
32	Butchers.....	39	27	25	64.10	92.58
33	Butlers.....	9	8	6	66.66	75.00
34	Cabinet makers.....	11	7	6	54.54	85.71
35	Calclminers.....	6	6	5	83.33	83.33
36	Candy makers.....	1	1	1	100.00	100.00
37	Canvassers.....	26	52	26	100.00	50.00
38	Carpenters.....	306	299	245	80.07	81.94
39	Carpet layers.....	16	17	15	93.75	88.24
40	Carriage and wagon washers.....	41	41	38	92.68	92.68
41	Carriage painters.....	2	3	2	100.00	66.66
42	Cashiers.....	3	3	3	100.00	100.00
43	Checkers.....	4	3	3	75.00	100.00
44	Cigarmakers.....	2	2	2	100.00	100.00
45	Cleaners, harness.....	20	24	20	100.00	83.33
46	Clerks, bill.....	3	4	2	66.66	50.00
47	Clerks, drug.....	7	4	3	42.86	75.00
48	Clerks, dry goods.....	15	7	7	46.66	100.00
49	Clerks, grocery.....	33	13	13	34.21	100.00
50	Clerks, hotel.....	9	1	1	11.11	100.00
51	Clerks, office.....	15	9	8	53.33	88.88
52	Clerks, shipping.....	71	22	22	30.99	100.00
53	Clerks, general.....	180	44	38	21.11	86.36
54	Clerks, stock.....	3	2	2	66.66	100.00
55	Coachmen.....	85	67	59	69.41	89.06
56	Coal miners.....	88	168	82	93.19	51.90
57	Coal passers.....	31	24	24	77.42	100.00
58	Collectors.....	43	12	12	27.91	100.00
59	Cooks.....	487	450	384	78.85	85.33
60	Coopers.....	7	5	5	71.43	100.00
61	Conductors.....	10	10	8	80.00	80.00
62	Coremakers.....	31	35	16	51.61	45.71
63	Dairymen.....	4	5	4	100.00	80.00
64	Deck hands.....	11	14	11	100.00	78.57
65	Dishwashers.....	815	786	753	92.39	95.80
66	Distributors.....	24	21	21		
67	Draughtsmen.....	2				
68	Doormen.....	3	2	2	66.66	100.00
69	Drill pressmen.....	56	17	17	30.36	100.00
70	Drivers.....	453	459	378	83.44	82.35

Table 6—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
71	Druggists	1				
72	Electricians	47	11	11	23.40	100.00
73	Elevatormen	165	98	95	57.58	96.94
74	Employees, wholesale house	16				
75	Engineers	114	42	35	30.70	83.33
76	Engine wipers	1	1	1	100.00	100.00
77	Factory hands	1,936	1,929	1,639	84.66	84.97
78	Farm hands	768	887	662	86.20	74.63
79	Filers	2	2	2	100.00	100.00
80	Firemen	209	116	114	54.55	98.28
81	Florists	17	15	15	88.24	100.00
82	Flour packers	1				
83	Foremen	5	1	1	20.00	100.00
84	Furnace tenders	1	1			
85	Gardeners	45	39	32	71.11	82.05
86	Gasfitters	10	7	7	70.00	100.00
87	Glass workers		4			
88	Glaziers	2	2	2	100.00	100.00
89	Harness makers	19	29	19	100.00	65.52
90	Harvest hands	12	12	12	100.00	100.00
91	Horse shoers	1				
92	Hostlers	70	66	61	87.14	92.42
93	Housemen	900	847	788	87.56	93.03
94	Iron workers	31	27	24	77.42	88.88
95	Janitors	372	298	274	73.66	91.95
96	Kitchenwork	276	288	250	90.58	86.81
97	Laborers	10,533	11,905	10,174	96.59	85.46
98	Laborers, railroad	2,984	3,128	2,913	97.62	93.13
99	Lathe hands	25	8	8	32.00	100.00
100	Lathers	1				
101	Laundrymen	89	76	75	94.27	99.68
102	Linemen, not stated	1				
103	Machine hands	91	19	17	18.68	89.49
104	Machinists	337	296	223	66.17	75.35
105	Massage workers	2				
106	Meat cutters and slaughterers	2				
107	Mechanics	1				
108	Merchants	1	2	1	100.00	50.00
109	Metal workers	1				
110	Millers	4	4	4	100.00	100.00
111	Millwrights	3	3	2	66.67	66.67
112	Models	2	2	2	100.00	100.00
113	Molders	33	91	21	63.64	23.08
114	Motormen	1	2	1	100.00	50.00
115	Nurses	9	5	5	55.56	100.00
116	Office help	71	9	8	11.27	11.27
117	Oilers	5				
118	Packers	103	75	67	65.05	89.33
119	Painters	162	180	144	88.89	80.00
120	Paper hangers	6	8	4	66.67	50.00
121	Pantrymen	14	14	13	92.86	92.86
122	Panwashers	8	5	5	62.50	100.00
123	Paper cutters	1	1			
124	Pattern makers	1				
125	Photographers	3				
126	Pin setters	25	24	24	96.00	100.00
127	Piano makers	2				
128	Pipe fitters	1				
129	Plasterers	1				
130	Plumbers	4	4			
131	Polishers, metal	8	17	8	100.00	47.06
132	Polishers, not stated	4				
133	Porters	1,337	1,215	1,169	87.43	95.21
134	Pressers	2	2			
135	Pressmen	5	3	2	60.00	66.67
136	Printers	9	4	4	44.44	100.00
137	Punch press hands	10				

Table 6—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled, applicants for help.
138	Roofers.....	7	6	6	85.70	100.00
139	Salesmen.....	86	45	29	33.72	64.44
140	Samplers.....	1	1	1	100.00	100.00
141	Sawyers.....	1				
142	Sectionmen.....	5	5	5	100.00	100.00
143	Shoemakers.....	6	3	3	50.00	100.00
144	Solicitors.....	49	67	44	81.63	65.67
145	Steam fitters.....	14	9	8	57.14	88.89
146	Stenographers.....	18	8	6		
147	Stockmen.....	306	308	284	92.81	92.21
148	Stock keepers.....	2				
149	Stone masons.....	2				
150	Stovemmen.....	5	4	4	80.00	100.00
151	Supers.....	26	25	25	96.15	100.00
152	Surveyors.....	9	8	8	88.89	100.00
153	Tailors.....	9	6	6	66.67	100.00
154	Teachers, not stated.....	5	1	1	20.00	20.00
155	Teamsters.....	894	954	813	90.94	85.22
156	Telegraphers.....	1	1			
157	Time keepers.....	3				
158	Tinsmiths.....	17	23	12	70.59	52.17
159	Tool makers.....	1				
160	Trainmen.....	8	8	8	100.00	100.00
161	Truckmen.....	23	18	16	69.57	88.89
162	Ushers.....	20	20	20	100.00	100.00
163	Upholsterers.....	15	21	13	85.67	61.90
164	Waiters.....	690	655	605	85.12	92.82
165	Watchmen.....	132	45	39	29.55	85.67
166	Weavers.....	2	4	2	100.00	50.00
167	Weighmen.....	1				
168	Whitewashers.....	161	205	151	100.00	73.66
169	Window washers.....	366	367	322	90.45	87.74
170	Wood choppers.....	3	16	3	100.00	18.75
171	Wood workers.....	40	44	32	80.00	72.73
172	Yardmen.....	319	301	296	92.79	98.34
173	Miscellaneous, not classified.....	415	351	210	50.60	59.83
	FEMALES.....	14,096	17,613	12,892	89.52	73.20
1	Addressers.....	11	25	10	90.91	40.00
2	Agents.....	6	13	6	100.00	46.15
3	Attendants.....	2	4	2	100.00	50.00
4	Barbers.....		1			
5	Bookbinders.....	1				
6	Bookkeepers.....	32	9	5	15.63	55.56
7	Bottle labelers.....	11	15	11	100.00	73.33
8	Canvassers.....	6	21	5	83.33	23.81
9	Cashiers.....	35	16	12	34.29	75.00
10	Clerks.....	56	32	24	42.86	75.00
11	Collectors.....	5	12	12		
12	Chambermaids.....	1,020	1,159	940	92.16	81.10
13	Companions.....	8	4	3	37.50	75.00
14	Cooks.....	1,071	1,329	975	91.04	73.36
15	Dayworkers.....	837	657	637	76.12	96.96
16	Demonstrators.....	8	5	2	25.00	40.00
17	Diningroom help.....	304	419	258	83.16	63.96
18	Dishwashers.....	1,002	1,103	950	94.81	86.13
19	Distributors.....	7	4	4	57.15	100.00
20	Domestics.....	398	879	386	96.99	43.91
21	Dressmakers.....	1				
22	Factory work.....	769	1,068	675	87.78	63.20
23	Folders, circular.....	11	15	11	100.00	73.33
24	General housework.....	3,956	5,640	3,767	95.22	68.00
25	Governesses.....	2	1	1	50.00	100.00
26	Hall girls.....	13	15	12	92.31	80.00
27	Hotel help.....	10	7	6	60.00	85.70

Table 6—Concluded.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled, applicants for help.
28	Housekeepers.....	319	306	177	55.49	57.84
29	Janitresses.....	21	15	15	71.43	100.00
30	Kitchen help.....	948	1,153	935	98.63	81.09
31	Lady's maid.....	4	4	3	75.00	75.00
32	Laundresses.....	382	469	351	91.88	75.27
33	Linenroom help.....	6	4	4	66.67	100.00
34	Matrons.....	4	2	1	25.00	50.00
35	Nurses.....	182	207	146	80.22	70.53
36	Nurse girls.....	27	24	20	74.08	83.33
37	Office work.....	154	67	58	37.66	86.57
38	Pantry work.....	179	189	160	89.39	84.66
39	Pastry cooks.....	2	2	2	100.00	100.00
40	Reception service.....	3	2	1	33.33	50.00
41	Saleswomen.....	24	15	13	54.17	86.67
42	Scrubwomen.....	928	1,063	905	97.52	85.14
43	Seamstresses.....	116	148	73	62.93	49.32
44	Second work.....	334	412	293	87.72	71.12
45	Silver girls.....	4	6	4	100.00	66.67
46	Solicitors.....	.....	6	.....	.....	.....
47	Stenographers.....	116	24	19	16.38	79.17
48	Tailoresses.....	1	.....	.....	.....	.....
49	Teachers, not stated.....	3	1	.....	.....	.....
50	Telephone operators.....	6	1	1	16.67	100.00
51	Vegetable cleaners.....	6	8	6	100.00	75.00
52	Waitresses.....	676	997	659	97.49	66.10
53	Washerwomen.....	8	3	3	37.50	100.00
54	Wrappers.....	1	1	1	100.00	100.00
55	Miscellaneous, not stated.....	60	141	55	91.67	39.01

* Including 934 applications filed previous year.

† Including 661 applications filed previous year.

‡ Including 273 applications filed previous year.

In the reading of the two percentage columns of this table it will be interesting to note the large proportion of positions secured to applicants seeking employment, also to employers seeking help. A selection has been made of 28 leading occupations for males, and 20 for females, showing in condensed form in the following table the work accomplished by all the offices:

TABLE 7—Summary of the Leading Occupations, Showing Applications for Employment and Help, With Percentages.

Males.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES—	
		Employment.	Help.		Securing work.	Securing help.
	Grand total.....	40,772	45,095	36,619	89.81	81.20
	Males.....	27,022	27,960	24,220	89.63	88.62
	Females.....	13,750	17,135	12,399	90.17	72.36
	Males.....	27,022	27,960	24,220	89.63	86.62
1	Barnmen.....	336	321	299	88.99	93.15
2	Bell boys and other occupations.....	1,000	1,225	882	88.20	72.00
3	Blacksmiths.....	149	156	127	85.24	81.41
4	Carpenters.....	306	299	245	80.07	81.94
5	Clerks, all kinds.....	341	106	96	28.15	90.57
6	Cooks.....	487	450	384	78.85	85.33
7	Dishwashers and kitchen work.....	1,091	1,074	1,003	91.93	93.39
8	Drivers.....	453	459	378	83.44	82.35
9	Elevator men.....	165	98	95	57.58	96.94
10	Engineers.....	114	42	35	30.70	83.33
11	Factory hands.....	1,936	1,929	1,639	84.66	84.97
12	Farm hands.....	768	887	662	86.20	74.63
13	Firemen.....	209	116	114	54.55	98.28
14	Housemen.....	900	847	788	87.56	93.03
15	Janitors.....	372	298	274	73.66	91.95
16	Laborers.....	10,533	11,908	10,174	96.59	85.46
17	Laborers, railroad.....	2,984	3,128	2,913	97.62	93.13
18	Machinists and helpers.....	428	315	240	56.07	76.19
19	Packers.....	103	75	67	65.05	89.33
20	Painters.....	162	180	133	88.89	80.00
21	Porters.....	1,337	1,215	1,169	87.43	96.21
22	Stockmen.....	306	308	284	92.81	92.21
23	Teamsters.....	894	954	813	90.94	85.22
24	Walters.....	690	655	608	88.12	92.82
25	Watchmen.....	132	45	39	29.55	86.67
26	Whitewashers.....	151	205	151	100.00	73.66
27	Window washers.....	356	367	322	90.45	87.74
28	Yardmen.....	319	301	296	92.79	98.34

Table 7—Concluded.

Females.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES—	
		Employment.	Help.		Securing work.	Securing help.
	Females	13,760	17,135	12,399	93.17	72.36
1	Chambermaids.....	1,020	1,159	940	92.16	81.10
2	Cooks.....	1,071	1,329	975	91.01	73.36
3	Dayworkers.....	837	657	637	76.12	96.96
4	Diningroom help.....	304	419	268	88.16	63.96
5	Dishwashers.....	1,002	1,103	950	94.81	86.13
6	Domestics.....	398	879	386	96.99	43.91
7	Factory work....	769	1,068	675	87.78	63.20
8	General house work.....	3,966	5,540	3,767	95.22	68.00
9	House keepers.....	319	306	177	55.49	57.84
10	Kitchen help.....	948	1,153	935	98.63	81.09
11	Laundresses	382	469	351	91.88	75.27
12	Nurses.....	182	207	146	80.22	70.63
13	Nurse girls.....	27	24	20	74.08	83.33
14	Office work, bookkeeping.....	186	78	63	33.87	80.77
15	Pantry work.....	179	189	160	89.39	84.66
16	Scrub women.....	928	1,063	905	97.52	85.14
17	Seamstresses	116	148	73	62.93	49.32
18	Second work.....	334	412	293	87.72	71.12
19	Stenographers.....	116	24	19	16.38	79.17
20	Waitresses.....	676	997	659	97.49	66.10

This classification accounts for a total of 40,772 or 93.71 per cent of all the applications filed during the year. For the applications for help 45,095 or 94.82 per cent are also represented. The fourth and fifth columns of the table show the percentages of positions secured and help furnished. It will be noticed that the large percentages here presented reflects almost the entire business of the offices.

The next table presents a classification of the occupations, nine classes for males and seven classes for females, giving the number and percentages of applications for employment and for help, also the number and percentages of positions secured in each class.

TABLE 8—*Classified Occupations of Applicants for Employment, Positions Secured and Applications for Help in the Four Offices, with Percentages in Each Class.*

Males.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	Males	29,414	.....	26,335	.....	29,946	.....
	Not classified .....	.....	.....	661	.....	.....	.....
	Total .....	.....	.....	25,674	.....	.....	.....
	AGRICULTURAL	1,152	100.00	1,009	100.00	1,266	100.00
1	Dairymen	4	.35	4	.40	5	.40
2	Farm hands	765	66.67	662	65.61	897	70.76
3	Florists	17	1.48	15	1.49	15	1.18
4	Gardeners	45	3.90	32	3.16	39	3.08
5	Harvest hands	12	1.04	12	1.19	12	.95
6	Stockmen	306	26.56	284	28.15	308	24.33
	CLERICAL	430	100.00	111	100.00	123	100.00
1	Bookkeepers	66	15.35	9	8.11	9	7.32
2	Clerks, bill	3	.70	2	1.80	4	3.25
3	Clerks, drug	7	1.63	3	2.70	4	3.25
4	Clerks, dry goods	15	3.49	7	6.31	7	5.69
5	Clerks, general	180	41.86	39	34.23	44	35.77
6	Clerks, grocery	38	8.84	13	11.71	13	10.57
7	Clerks, hotel	9	2.09	1	.90	1	.81
8	Clerks, office	15	3.49	8	7.21	9	7.32
9	Clerks, shipping	71	16.51	22	19.82	22	17.89
10	Clerks, stock	3	.70	2	1.80	2	1.63
11	Stenographers	18	4.18	6	5.41	8	6.50
12	Stockkeepers	2	.46	.....	.....	.....	.....
13	Timekeepers	3	.70	.....	.....	.....	.....
	COMMERCIAL	607	100.00	425	100.00	556	100.00
1	Agents	35	5.77	15	3.53	20	3.60
2	Boys, cash	47	7.74	43	10.12	55	9.89
3	Boys, delivery	193	31.80	175	41.18	182	32.73
4	Boys, office	91	14.99	51	12.00	93	16.73
5	Canvassers	26	4.28	26	6.12	52	9.35
6	Cashiers	3	.50	3	.70	3	.54
7	Checkers	4	.66	3	.70	3	.54
8	Collectors	43	7.08	12	2.82	12	2.16
9	Distributors	24	3.95	21	4.94	21	3.78
10	Doormen	3	.50	2	.48	2	.36
11	Draughtsmen	2	.33	.....	.....	.....	.....
12	Salesmen	86	14.17	29	6.82	45	8.09
13	Samplers	1	.16	1	.24	1	.18
14	Solicitors	49	8.07	44	10.35	67	12.05
	DOMESTIC SERVICE	4,554	100.00	3,972	100.00	4,287	100.00
1	Attendants	2	.04	2	.05	2	.05
2	Butlers	9	.20	6	.15	8	.19
3	Carpet layers	16	.35	15	.38	17	.40
4	Cooks	487	10.69	394	9.66	450	10.49
5	Dishwashers	815	17.90	753	18.96	786	18.33
6	Housemen	900	19.76	798	19.84	847	19.75
7	Kitchenwork	276	6.06	250	6.29	283	6.74
8	Pantrymen	14	.31	13	.33	14	.32

Table 8—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
9	DOMESTIC SERVICE— <i>Conc'd.</i>	8	.18	5	.13	5	.11
10	Panwashers	1,337	29.36	1,169	29.43	1,215	28.34
11	Porters	690	15.15	587	14.78	655	15.28
	Waiters						
	MANUAL LABOR.....	13,548	100.00	13,111	100.00	15,057	100.00
1	Coal passers.....	31	.23	24	.18	24	.18
2	Laborers.....	10,633	77.75	10,174	77.60	11,905	79.07
3	Laborers, railroad	2,984	22.02	2,913	22.22	3,128	20.77
	PROFESSIONAL	31	100.00	14	100.00	14	100.00
1	Artists	7	22.58				
2	Druggists	1	3.23				
3	Nurses	9	29.03	6	35.72	6	35.72
4	Surveyors	9	29.03	8	57.14	8	57.14
5	Teachers.....	5	16.13	1	7.14	1	7.14
	TRADES	2,362	100.00	1,555	100.00	2,027	100.00
1	Bakers	61	2.58	34	2.19	35	1.73
2	Barbers	5	.21	4	.26	9	.44
3	Bartenders	44	1.87	24	1.54	26	1.28
4	Bench hands	22	.93	9	.58	10	.49
5	Blacksmiths.....	149	6.31	127	8.17	156	7.70
6	Boilermakers	38	1.61	28	1.80	52	2.56
7	Bookbinders.....	3	.13	2	.13	2	.10
8	Boxmakers	11	.47	8	.51	8	.39
9	Brass finishers.....	8	.34	1	.06	1	.05
10	Bricklayers	3	.13	3	.19	4	.20
11	Bridge builders.....	4	.17	4	.26	4	.20
12	Butchers	39	1.65	25	1.61	27	1.33
13	Cabinet makers	11	.47	6	.39	7	.34
14	Calclminers	6	.25	5	.32	6	.30
15	Candy makers.....	1	.04	1	.06	1	.05
16	Carpenters	306	12.97	245	15.76	299	14.75
17	Carriage painters.....	2	.08	2	.13	3	.15
18	Cigar makers	2	.08	2	.13	2	.10
19	Coal miners	88	3.73	82	5.27	158	7.79
20	Coopers	7	.30	5	.32	5	.25
21	Coremakers	31	1.32	16	1.03	35	1.73
22	Deck hands	11	.47	11	.71	14	.69
23	Drill press men.....	66	3.37	17	1.09	17	.84
24	Electricians.....	47	1.99	11	.71	11	.54
25	Engineers	114	4.83	35	2.25	42	2.07
26	Firemen	209	8.85	114	7.33	116	5.72
27	Gasfitters	10	.43	7	.45	7	.34
28	Glassworkers					4	.20
29	Glaziers	2	.08	2	.13	2	.10
30	Harness makers	19	.80	19	1.22	29	1.43
31	Horseshoers.....	1	.04				
32	Iron workers	31	1.32	24	1.54	27	1.33
33	Lathe hands.....	25	1.06	8	.51	8	.39
34	Lathers	1	.04				
35	Laundrymen	89	3.77	75	4.82	76	3.75
36	Machine hands.....	91	3.85	17	1.09	19	.94
37	Machinists	337	14.27	223	14.34	296	14.60
38	Masons, stone.....	2	.08				
39	Metal workers.....	1	.04				
40	Millers	4	.16	4	.26	4	.20
41	Millwrights	3	.13	2	.13	3	.15
42	Molders	33	1.40	21	1.35	91	4.49
43	Packers	103	4.36	67	4.31	75	3.70
44	Painters	162	6.86	144	9.26	180	8.88
45	Paper cutters.....	1	.04			1	.05

Table 8—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
TRADES—Concluded.							
46	Paper hangers.....	6	.25	4	.26	8	.39
47	Pattern makers.....	1	.04				
48	Photographers.....	3	.13				
49	Pipefitters.....	1	.04				
50	Plano makers.....	2	.08				
51	Plasterers.....	1	.04				
52	Plumbers.....	4	.17			4	.20
53	Polishers, metal.....	8	.34	8	.51	17	.84
54	Polishers, not stated.....	4	.17				
55	Pressers.....	2	.08			2	.10
56	Pressmen.....	5	.21	2	.13	3	.15
57	Printers.....	9	.38	4	.26	4	.20
58	Punch press hands.....	10	.43				
59	Roofers.....	7	.30	6	.39	6	.30
60	Sawyers.....	1	.04				
61	Shoemakers.....	6	.25	3	.19	3	.15
62	Steam fitters.....	14	.59	8	.51	9	.44
63	Tailors.....	9	.38	6	.39	6	.30
64	Telegraphers.....	1	.04			1	.05
65	Tinsmiths.....	17	.72	12	.77	23	1.13
66	Toolmakers.....	1	.04				
67	Upholsterers.....	15	.63	13	.84	21	1.04
68	Wagon makers.....			21	1.35		
69	Weavers.....	2	.08	2	.13	4	.20
70	Woodworkers.....	40	1.69	32	2.06	44	2.17
TRANSPORTATION.....		2,092	100.00	1,782	100.00	2,050	100.00
1	Barnmen.....	336	16.06	299	16.78	321	15.66
2	Carriage workers.....	41	1.96	38	2.13	41	2.00
3	Coachmen.....	85	4.06	59	3.31	67	3.27
4	Conductors.....	10	.48	8	.45	10	.49
5	Drivers.....	453	21.65	378	21.21	459	22.39
6	Elevator men.....	165	7.89	95	5.33	98	4.78
7	Engine wipers.....	1	.05	1	.06	1	.05
8	Hostlers.....	70	3.35	61	3.42	66	3.22
9	Motor men.....	1	.05	1	.06	2	.10
10	Section men.....	894	42.73	813	45.62	954	46.53
11	Teamsters.....	8	.38	8	.45	8	.39
12	Trainmen.....	23	1.10	16	.90	18	.88
13	Truckmen.....	5	.24	5	.28	5	.24
MISCELLANEOUS.....		4,638	100.00	3,695	100.00	4,566	100.00
1	Apprentices.....	59	1.14	21	.57	22	.48
2	Bakers' helpers.....	1	.02	1	.03	1	.02
3	Bill posters.....	1	.02	1	.03	1	.02
4	Blacksmith's helpers.....	18	.39	14	.38	17	.37
5	Boilermakers' helpers.....	1	.02				
6	Bootblacks.....	4	.09	4	.11	4	.09
7	Boys.....	463	9.98	436	11.80	640	14.02
8	Boys, bell.....	35	.76	29	.78	40	.88
9	Boys, bus.....	2	.04			1	.02
10	Boys, elevator.....	3	.06	3	.08	3	.07
11	Boys, errand.....	87	1.88	73	1.98	139	3.04
12	Boys, factory.....	79	1.71	72	1.95	72	1.58
13	Cleaners, harness.....	20	.43	20	.54	24	.53
14	Factory hands.....	1,936	51.74	1,639	44.36	1,929	42.25
15	Filers.....	2	.04	2	.05	2	.04
16	Flour packers.....	1	.02				
17	Foremen.....	5	.11	1	.03	1	.02
18	Furnace tenders.....	1	.02			1	.02
19	Janitors.....	372	8.02	274	7.42	298	6.53
20	Linemen.....	1	.02				
21	Massage workers.....	2	.04				
22	Meat cutters.....	2	.04				
23	Mechanic.....	1	.02				

Table 8—Continued.

Number.	CLASSIFICATIONS OF POSITIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	MISCELLANEOUS— <i>Concluded.</i>						
24	Merchant.....	1	.02	1	.03	2	.04
25	Models.....	2	.04	2	.05	2	.04
26	Office help.....	71	1.63	8	.21	9	.20
27	Others.....	5	.11				
28	Pin setters.....	25	.64	24	.65	24	.53
29	Stovemmen.....	5	.11	4	.11	4	.07
30	Supers.....	26	.66	26	.67	25	.66
31	Ushers.....	20	.43	20	.54	20	.44
32	Watchmen.....	132	2.85	39	1.06	45	.99
33	Weighmen.....	1	.02				
34	Wholesale men.....	16	.35				
35	Window washers.....	507	10.94	473	12.80	572	12.53
36	Wood choppers.....	3	.06	3	.08	16	.35
37	Yardmen.....	319	6.88	296	8.01	301	6.59
38	Not classified.....	415	8.95	210	5.68	351	7.69

Females.

	Females.....	14,096		12,892		17,613	
	Not classified.....			273			
	Total.....			12,619			
	CLERICAL.....	302	100.00	82	100.00	100	100.00
1	Bookkeepers.....	32	10.60	5	6.10	9	9.00
2	Office work.....	154	50.99	58	70.73	67	67.00
3	Stenographers.....	116	38.41	19	23.17	24	24.00
	COMMERCIAL.....	181	100.00	96	100.00	153	100.00
1	Addressers.....	11	6.08	10	10.42	25	15.83
2	Bottle labelers.....	11	6.08	11	11.46	15	9.49
3	Canvassers.....	6	3.31	5	5.21	21	13.29
4	Cashiers.....	35	19.34	12	12.50	16	10.13
5	Circular folders.....	11	6.08	11	11.46	15	9.49
6	Clerks.....	56	30.94	24	25.00	32	20.25
7	Collectors.....	5	2.76	2	2.08	2	1.27
8	Demonstrators.....	8	4.42	2	2.08	5	3.17
9	Distributors.....	7	3.87	4	4.16	4	2.53
10	Saleswomen.....	24	13.26	13	13.55	15	9.49
11	Solicitors.....					6	3.80
12	Telephone girls.....	6	3.31	1	1.04	1	.63
13	Wrappers.....	1	.55	1	1.04	1	.63
	DOMESTIC SERVICE.....	12,433	100.00	11,461	100.00	15,746	100.00
1	Chambermaids.....	1,020	8.20	940	8.20	1,159	7.36
2	Cooks.....	1,071	8.61	975	8.50	1,329	8.44
3	Day workers.....	837	6.73	637	5.56	657	4.17
4	Diningroom help.....	304	2.45	268	2.34	419	2.66
5	Dishwashers.....	1,002	8.06	950	8.29	1,103	7.01
6	Domestics.....	398	3.20	386	3.37	879	5.58
7	General housework.....	3,956	31.82	3,767	32.87	5,640	35.19
8	Hall girls.....	13	.10	12	.10	15	.10
9	Hotel help.....	10	.08	6	.05	7	.05
10	Housekeepers.....	319	2.57	177	1.54	306	1.94
11	Kitchen help.....	948	7.62	935	8.16	1,153	7.32
12	Laundresses.....	382	3.07	351	3.06	380	2.41
13	Linenroom girls.....	6	.05	4	.04	93	.59

Table 8—Concluded.

Number.	CLASSIFICATIONS OF POSITIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	DOMESTIC SERVICE—Concl'd.						
14	Nurse girls	27	.22	20	.17	24	.15
15	Pantry work	179	1.44	160	1.39	189	1.20
16	Pastry cooks	2	.02	2	.02	2	.01
17	Reception service	3	.02	1	.01	2	.01
18	Scrub women	928	7.46	905	7.90	1,063	6.75
19	Second work	334	2.69	293	2.56	412	2.62
20	Silver girl	4	.04	4	.04	6	.04
21	Vegetable cleaners	6	.05	6	.05	8	.05
22	Waitresses	676	5.44	659	5.75	997	6.33
23	Washerwomen	8	.06	2	.03	3	.02
	PERSONAL SERVICE	18	100.00	9	100.00	14	100.00
1	Attendants	2	11.11	2	22.23	4	28.57
2	Companions	8	44.45	3	33.33	4	28.57
3	Lady's maid	4	22.22	3	33.33	4	28.57
4	Matrons	4	22.22	1	11.11	2	14.29
	PROFESSIONAL	187	100.00	147	100.00	209	100.00
1	Governess	2	1.07	1	.68	1	.48
2	Nurses	182	97.33	146	99.32	207	99.04
3	Teachers	3	1.60	.....	.....	1	.48
	TRADES	119	100.00	73	100.00	149	100.00
1	Barber .....	.....	.....	.....	.....	1	.67
2	Bindery girl	1	.84	.....	.....	.....	.....
3	Dressmaker	1	.84	.....	.....	.....	.....
4	Seamstresses	116	97.48	73	100.00	148	99.33
5	Tailloresses	1	.84	.....	.....	.....	.....
	MISCELLANEOUS	856	100.00	751	100.00	1,237	100.00
1	Agents	6	.70	6	.80	13	1.05
2	Factory work	769	89.84	675	89.88	1,068	86.34
3	Janitresses	21	2.45	15	2.00	15	1.21
4	Not stated	60	7.01	55	7.32	141	11.40

The foregoing table is recapitulated as follows:

TABLE 9—*Classified Occupations (Male and Female), with Percentages.*

Number.	SEX AND CLASSES OF OCCUPATIONS.	Number of occupations in each class.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
			Number	Per-centages	Number.	Per-centages	Number.	Per-centages
	MALES		29,414	100.00	26,335	100.00	29,946	100.00
	Not classified				661			
	Total				25,674			
1	Agricultural	6	1,152	3.92	1,009	3.93	1,266	4.23
2	Clerical	13	430	1.46	111	.43	123	.41
3	Commercial	14	607	2.06	425	1.66	556	1.86
4	Domestic service.	11	4,554	15.48	3,972	15.47	4,287	14.31
5	Manual labor	3	13,548	46.06	13,111	51.07	15,057	50.28
6	Professional	5	31	.11	14	.05	14	.05
7	Trades	70	2,362	8.03	1,555	6.06	2,027	6.77
8	Transportation ...	13	2,092	7.11	1,782	6.94	2,050	6.84
9	Miscellaneous	38	4,638	15.77	3,695	14.39	4,566	15.25
	FEMALES		14,096	100.00	12,892	100.00	17,613	100.00
	Not classified				273			
	Total				12,619			
1	Clerical	3	302	2.14	82	.65	100	.56
2	Commercial	13	181	1.28	96	.76	158	.90
3	Domestic service.	23	12,433	88.20	11,461	90.82	15,846	89.40
4	Personal service..	4	18	.13	9	.07	14	.09
5	Professional	3	187	1.33	147	1.17	209	1.19
6	Trades	5	119	.85	73	.58	149	.85
7	Miscellaneous	4	856	6.07	751	5.95	1,237	7.02

It is shown here that of the 29,414 male applicants for employment, 46 per cent registered for some kind of manual labor. This percentage is the same as recorded last year. This same class of employment accounts for 51 per cent of the positions secured, and represents 50 per cent of the employers.

Domestic service accounts for the next highest number, representing 15 per cent of the applications for employment, the same for positions, and 14 per cent of the applications for help.

Table No. 10—Continued.

No.	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re-reported.
	DOMESTIC SERVICE	447	1,291	1,416	916	355	85	14
1	Attendants.....			1	1			
2	Butlers.....		4	2	3			
3	Carpet layers.....		9	6	1			
4	Cooks.....	7	181	202	73	23	1	
5	Dishwashers.....	61	308	342	70	34		
6	Housemen.....	15	168	287	194	184	50	2
7	Kitchenwork.....	27	71	101	61	16		
8	Pantrymen.....	2	6	3	2	1		
9	Panwashers.....	3	4	1				
10	Porters.....	127	285	300	456	126	34	9
11	Waiters.....	205	255	171	55	1		3
	MANUAL LABOR.....	750	5,011	4,895	1,695	599	49	549
1	Coal passers.....	1	23	4	2	1		
2	Laborers.....	403	3,696	3,659	1,591	586	49	549
3	Laborers, railroad.....	346	1,292	1,232	102	12		
	PROFESSIONAL.....		20	9	2			
1	Artists.....		3	4				
2	Druggists.....		1					
3	Nurses.....		6	2	1			
4	Surveyors.....		7	2				
5	Teachers.....		3	1	1			
	TRADES	176	1,039	780	294	53	12	8
1	Bakers.....	1	13	28	14	4		1
2	Barbers.....	1	2					
3	Bartenders.....	5	23	14	2			
4	Bench hands.....	8	11	2	1			
5	Blacksmiths.....	1	67	55	25	1		
6	Boilermakers.....	3	20	12	3			
7	Bookbinders.....	1	2					
8	Boxmakers.....	1	6	3				1
9	Brass finishers.....		7		1			
10	Bricklayers.....		1	1	1			
11	Bridge builders.....		1	2	1			
12	Butchers.....	2	10	20	5			2
13	Cabinet makers.....		3	4	2	2		
14	Calclminers.....		4	2				
15	Candy makers.....		1					
16	Carpenters.....	2	56	153	56	29	10	
17	Carriage painters.....			2				
18	Cigarmakers.....	1	1					
19	Coal miners.....		28	41	16	3		
20	Coopers.....		3	3	1			
21	Coremakers.....	12	12	7				
22	Deck hands.....		9	2				
23	Drill pressmen.....	23	29	4				
24	Electricians.....	11	31	4				
25	Engineers.....		38	50	20		1	
26	Firemen.....	15	113	70	9	2		
27	Gasfitters.....		5	3	2			
28	Glaziers.....			1	1			
29	Harnessmakers.....	1	10	5	2	1		
30	Horseshoers.....				1			
31	Ironworkers.....		16	11	4			
32	Lathe hands.....	2	18	5				
33	Lathers.....				1			
34	Laundrymen.....	13	40	31	4			1
35	Machine hands.....	32	48	8	3			
36	Machinists.....	9	162	102	61	3		
3	Masons, stone.....				2			
38	Metal workers.....		1					
39	Millers.....			2	2			
40	Millwrights.....		1	1	1			
41	Molders.....	2	13	16	2			

Table 10—Continued.

No.	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not reported.
TRADES—Concluded.								
42	Packers	8	61	27	6			1
43	Painters	5	88	38	28	1	1	1
44	Paper cutters		1					
45	Paper hangers		4	1	1			
46	Patternmakers			1				
47	Photographers	1		1	1			
48	Pipefitters			1				
49	Piano makers		2					
50	Plasterers		1					
51	Plumbers	1	1	2				
52	Polishers, metal	5	3					
53	Polishers, not stated		2	2				
54	Pressers	1		1				
55	Pressmen		5					
56	Printers	1	5	3				
57	Punch press hands	6	3	1				
58	Roofers	1	4	2				
59	Sawyers		1					
60	Shoemakers		3	1	2			
61	Steamfitters		6	8				
62	Tailors	5	5	2	2			
63	Telegraphers		1					
64	Tinsmiths		10	5	1			1
65	Toolmakers		1					
66	Upholsterers	1	6	6	2			
67	Weavers			1	1			
68	Woodworkers	1	21	10	6	2		
TRANSPORTATION								
		209	1,175	552	130	15		11
1	Barnmen	37	146	84	50	9		10
2	Carriage washers		29	10	2			
3	Coachmen	1	45	34	5			
4	Conductors		4	5	1			
5	Drivers	65	348	26	10	4		
6	Elevatormen	26	92	39	8			
7	Engine wipers			1				
8	Hostlers	4	25	33	6	2		
9	Motormen		1					
10	Sectionmen		3	2				
11	Teamsters	74	463	308	48			1
12	Trainmen	1	7					
13	Truckmen	1	12	10				
MISCELLANEOUS								
		1,451	1,565	1,039	369	92	54	68
1	Apprentices	44	9					
2	Bakers' helpers				1			
3	Bill posters		1					
4	Blacksmith's helpers	13	5					
5	Boilermaker's helpers		1					
6	Bootblacks	4						
7	Boys	456	7					
8	Boys, bell	35						
9	Boys, bus	2						
10	Boys, elevator	3						
11	Boys, errand	87						
12	Boys, factory	79						
13	Cleaners, harness		11	8	1			
14	Factory hands	524	645	488	144	32	39	64
15	Filers		2					
16	Flour packers			1				
17	Foremen		4		1			
18	Furnace tenders			1				
19	Janitors	18	161	132	41	15	5	
20	Linemen			1				
21	Massage workers		2					
22	Meat cutters		1	1				
23	Mechanics		1					
24	Merchants				1			
25	Models		2					
26	Office help	28	27	14	1	1		

Table 10—Continued.

No.	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re-reported.
	<i>MISCELLANEOUS—Concluded.</i>							
27	Oilers	1	3	1				
28	Pinsetters	25		3				
29	Stovemmen		2	3				
30	Supers	14	10	2				
31	Ushers	14	4	2				
32	Watchmen		23	27	46	27	9	
33	Welghmen			1				
34	Wholesale men	4	10	2				
35	Window washers	22	328	114	41			2
36	Wood cutters		2	1				
37	Yardmen	23	125	106	55	7	1	2
38	Not classified	55	179	134	37	10		

Females.

	Females—14,096.....	2,981	5,273	2,913	1,497	359	169	904
	North Side Office.....	910	1,453	429	290	141	163	678
	South Side Office.....	908	2,419	1,667	564	50	1	57
	West Side Office.....	590	668	445	435	121	4	169
	Peoria Office.....	573	733	372	108	47	1	
	CLERICAL	165	110	23	2			2
1	Bookkeepers	5	22	5				
2	Office work	93	52	6	1			2
3	Stenogaaphers	67	36	12	1			
	COMMERCIAL.....	83	76	14	4	2		2
1	Addressers	8	2					1
2	Bottle labelers	9	2					
3	Canvassers			3	2	1		
4	Cashiers	9	23	1	1			1
5	Circular folders		2					
6	Clerks	28	24	3		1		
7	Collectors	1	1	2	1			
8	Demonstrators	1	5	2				
9	Distributors	3	4					
10	Saleswomen	9	12	3				
11	Telephone girls	5	1					
12	Wrappers	1						
	DOMESTIC SERVICE.....	2,067	4,723	2,765	1,471	350	169	888
1	Chsambermaids	122	528	225	126	13		6
2	Cooks	24	277	404	233	54		79
3	Dayworkers	6	143	215	127	59	99	188
4	Diningroom help	60	160	82	1			1
5	Dishwashers	129	270	180	200	36	32	155
6	Domestics	50	169	54	48	32	3	42
7	General housework	1,079	1,918	712	205	20	1	21
8	Hall girls	1	10	2				
9	Hotel help	1	5	2	39	12		18
10	Housekeepers		84	81	50	20	1	16
11	Kitchen help	113	149	210	177	55	32	212
12	Laundresses	37	151	147	35	4		5
13	Linen room girls	1	4	1				
14	Nurse girls	25	2					
15	Pantry work	29	90	36	11	4		9
16	Pastry cooks		1	1				
17	Reception service.....	1	2					
18	Scrubwomen	43	228	315	212	40	1	89
19	Second work	96	150	45	1			42
20	Silver girl	3	1					
21	Vegetable cleaners	3	3					
22	Waitresses	244	377	49	1			5
23	Washerwomen		1	4	2	1		

Table 10—Cuncluded.

No.	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
	PERSONAL SERVICE	2	8	6	2	.....	.....	.....
1	Attendants	1	.....	1	.....	.....	.....	.....
2	Companions	1	4	2	1	.....	.....	.....
3	Lady's maids .....	.....	4	.....	.....	.....	.....	.....
4	Matrons.....	.....	.....	3	1	.....	.....	.....
	PROFESSIONAL	76	75	22	6	4	.....	4
1	Governesses .....	.....	1	1	.....	.....	.....	.....
2	Nurses	76	71	21	6	4	.....	4
3	Teachers.....	.....	3	.....	.....	.....	.....	.....
	TRADES	26	57	25	6	2	.....	3
1	Bindery girls .....	.....	1	.....	.....	.....	.....	.....
2	Dressmakers	1	.....	.....	.....	.....	.....	.....
3	Seamstresses	25	55	25	6	2	.....	3
4	Talloresses .....	.....	1	.....	.....	.....	.....	.....
	MISCELLANEOUS	562	225	57	6	1	.....	5
1	Agents	1	3	2	.....	.....	.....	.....
2	Factory work	523	197	45	2	1	.....	1
3	Janitresses	2	5	10	3	.....	.....	1
4	Not stated.....	36	20	.....	1	.....	.....	3

The foregoing table is summarized in the following table:

TABLE 11—*Summary of Age Periods of Applicants by Classified Occupations.*

Sex and Classes of Occupations.	Number of oc- cupations of each class.	Totals.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
MALES .....	.....	29,414	3,598	10,920	9,276	3,599	1,164	204	653
FEMALES.....	.....	14,096	2,981	5,273	2,913	1,497	359	169	904
Percentages—males ..	.....		12.23	37.12	31.54	12.24	3.96	0.69	2.22
Percentages—females.	.....		21.15	37.41	20.66	10.62	2.55	1.20	6.41
MALES—									
Agricultural	6	1,152	126	474	419	120	11	1	1
Clerical.....	13	430	67	210	99	45	6	2	1
Commercial	14	607	372	135	67	28	3	1	1
Domestic service ..	11	4,554	447	1,291	1,416	916	385	85	14
Manual labor.....	3	13,548	750	5,011	4,895	1,695	599	49	549
Professional.....	5	31	.....	20	9	2	.....	.....	.....
Trades.....	68	2,362	176	1,039	780	294	53	12	8
Transportation	13	2,092	209	1,175	552	130	15	.....	11
Miscellaneous.....	38	4,638	1,451	1,565	1,039	369	92	54	68
FEMALES—									
Clerical.....	3	302	165	110	23	2	.....	.....	2
Commercial.....	12	181	83	76	14	4	2	.....	2
Domestic service ..	23	12,433	2,067	4,723	2,765	1,471	350	169	888
Personal service...	4	18	2	8	6	2	.....	.....	.....
Professional	3	187	76	75	22	6	4	.....	4
Trades.....	4	119	26	57	25	6	2	.....	3
Miscellaneous.....	4	856	562	225	57	6	1	.....	5

Referring to the percentages shown here it will be seen that from 20 to 30 years, 37 per cent represents both males and females. Of the total males, 20,196 or 68.66 per cent were between the ages of 20 and 40 years; 16.89 per cent over 40 years, and 12.23 per cent under 20 years. Of the females 8,186 or 58.07 per cent were between the ages of 20 and 40 years; 14.37 per cent over 40 years, and 21.15 per cent under 20 years.

Manual labor accounts for 91 per cent of the males under 50 years of age, while domestic service represents 89 per cent of the females,

CONJUGAL CONDITIONS.

The following table shows the conjugal conditions of the applicants, both male and female, by classified occupations:

TABLE 12—*Conjugal Conditions, Members of Trades Unions, Days Idle, and Number Willing to Accept Work Out of City.*

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single.	Number of dependent children.			
	MALES—.....29,414	6,511	22,903	6,889	2,335	8	14,938
	North Side Office	2,079	3,940	2,000	343	13	722
	South Side Office	2,046	9,789	2,357	1,624	5	8,110
	West Side Office	940	5,530	1,028	236	13	4,181
	Peoria Office	1,446	3,644	1,504	132	5	1,925
	AGRICULTURAL—.....	265	887	289	15	37	935
1	Dairymen.....	2	2	3	.....	3	4
2	Farm hands	179	589	163	11	49	769
3	Florists	2	15	1	.....	35	13
4	Gardeners	14	31	17	.....	31	27
5	Harvest hands	3	9	2	.....	5	.....
6	Stockmen.....	65	241	103	4	11	122
	CLERICAL—.....	125	305	176	34	30	229
1	Bookkeepers	27	39	33	.....	45	37
2	Clerks, bill	1	2	2	1	24	2
3	Clerks, drug	3	4	5	.....	14	3
4	Clerks, dry goods	6	9	6	.....	22	1
5	Clerks, general	48	132	56	16	24	96
6	Clerks, grocery	17	21	41	.....	51	23
7	Clerks, hotel	2	7	2	2	29	8
8	Clerks, office	4	11	9	2	4	12
9	Clerks, shipping	15	56	20	12	26	32
10	Clerks, stock	1	2	2	.....	7	1
11	Stenographers	1	17	.....	.....	41	12
12	Stockkeepers .....	.....	2	.....	.....	6	1
13	Timekeepers .....	.....	3	.....	1	12	1
	COMMERCIAL—.....	97	510	102	19	38	132
1	Agents	14	21	24	1	28	16
2	Boys, cash .....	.....	47	.....	.....	4	21
3	Boys, delivery .....	.....	193	.....	.....	16	14
4	Boys, office .....	.....	91	.....	1	141	2
5	Canvassers	13	13	10	5	7	.....
6	Cashiers	2	1	3	.....	7	1
7	Checkers	1	3	2	.....	7	2
8	Collectors	20	23	22	1	24	14
9	Distributors	1	23	1	.....	36	9
10	Doormen	2	1	5	.....	14	2
11	Draughtsmen .....	.....	2	.....	.....	40	1
12	Salesmen	33	53	22	2	30	32
13	Samplers	1	.....	.....	.....	21	.....
14	Solicitors	10	39	13	9	21	18

Table 12—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single.	Number of dependent children.			
	DOMESTIC SERVICE—	740	3,814	710	386	28	2,159
1	Attendants	1	1	.....	.....	12	.....
2	Butlers	3	6	.....	.....	11	4
3	Carpet layers	9	7	21	.....	5	8
4	Cooks	179	308	137	19	43	351
5	Dishwashers	90	725	74	1	32	601
6	Housemen	124	776	126	3	31	381
7	Kitchenwork	46	230	26	5	16	94
8	Pantrymen	2	12	2	.....	19	6
9	Pan washers	1	7	.....	.....	32	.....
10	Porters	133	1,204	134	16	18	497
11	Walters	152	538	190	342	36	217
	MANUAL LABOR—	2,818	10,730	3,046	514	29	8,333
1	Coal passers	5	26	.....	.....	14	15
2	Laborers	2,633	7,900	2,930	442	33	5,800
3	Laborers, railroad	160	2,804	116	72	13	2,517
	PROFESSIONAL—	10	21	16	.....	26	23
1	Artists	5	2	8	.....	24	4
2	Druggists .....	.....	1	.....	.....	30	.....
3	Nurses	2	7	3	.....	37	8
4	Surveyors	2	7	3	.....	16	7
5	Teachers	1	4	2	.....	30	4
	TRADES—	965	1,397	1,131	672	33	962
1	Bakers	34	27	62	9	22	32
2	Barbers	1	4	1	3	36	3
3	Bartenders	12	32	6	15	23	26
4	Bench hands	13	9	3	1	21	7
5	Blacksmiths	62	87	64	28	33	35
6	Boiler makers	14	24	23	10	53	10
7	Bookbinders	2	1	5	1	7	.....
8	Box makers	4	7	9	2	5	6
9	Brass finishers	1	7	1	.....	35	2
10	Bricklayers	2	1	4	1	3	1
11	Bridge builders	1	3	2	2	1	3
12	Butchers	17	22	19	12	49	15
13	Cabinet makers	8	3	16	6	19	3
14	Calclminers	2	4	5	1	4	3
15	Candy makers .....	.....	1	.....	.....	4	.....
16	Carpenters	201	105	141	135	27	55
17	Carriage painters	1	1	3	.....	3	.....
18	Cigar makers	2	.....	5	2	6	1
19	Coal miners	26	62	28	63	44	86
20	Coopers	4	3	4	1	26	2
21	Core makers	9	22	2	2	22	6
22	Deck hands	1	10	4	.....	16	11
23	Drill pressmen	6	50	3	2	18	14
24	Electricians	11	36	18	9	21	14
25	Engineers	86	28	116	53	85	51
26	Firemen	82	127	110	38	19	107
27	Gasfitters	2	8	3	7	4	6
28	Glaziers .....	.....	2	.....	.....	6	.....
29	Harness makers	9	10	16	6	24	12
30	Horseshoers	1	.....	.....	1	5	1
31	Iron workers	8	23	8	2	17	9
32	Lathe hands	3	22	8	7	18	11
33	Lathers .....	.....	1	.....	.....	6	1
34	Laundrymen	22	67	22	7	27	50

Table 12—Continued.

Number	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single	Number of dependent children.			
	TRADES—Concluded.						
35	Machine hands.....	10	81	10	10	12	42
36	Machinists.....	165	172	179	125	46	115
37	Masons, stone.....	2	.....	9	1	4	1
38	Metal workers.....	.....	1	.....	.....	6	.....
39	Millers.....	2	2	3	.....	17	1
40	Millwrights.....	2	1	1	.....	17	3
41	Molders.....	10	23	12	12	35	32
42	Packers.....	25	78	31	2	21	40
43	Painters.....	54	108	77	56	47	65
44	Paper cutters.....	.....	1	.....	.....	1	.....
45	Paper hangers.....	2	4	3	2	27	3
46	Pattern makers.....	1	.....	1	.....	2	.....
47	Photographers.....	2	1	4	.....	16	1
48	Pipefitters.....	1	.....	1	.....	28	1
49	Piano makers.....	.....	2	.....	.....	12	2
50	Plasterers.....	.....	1	.....	.....	1	.....
51	Plumbers.....	2	2	2	1	15	1
52	Polishers, metal.....	1	7	.....	2	5	6
53	Polishers, not stated.....	1	3	3	1	4	1
54	Pressers.....	.....	1	.....	.....	1	1
55	Pressmen.....	2	4	5	3	25	3
56	Printers.....	4	5	7	3	36	5
57	Punch press hands.....	.....	10	.....	1	8	5
58	Roofers.....	3	4	3	4	17	5
59	Sawyers.....	.....	1	.....	.....	3	1
60	Shoemakers.....	4	2	4	1	27	1
61	Steamfitters.....	3	11	6	3	33	6
62	Tailors.....	3	6	7	1	21	4
63	Telegraphers.....	.....	1	.....	.....	5	1
64	Tinsmiths.....	5	12	11	3	17	9
65	Toolmakers.....	.....	1	.....	.....	2	1
66	Upholsterers.....	4	11	5	6	34	11
67	Weavers.....	.....	2	.....	.....	11	.....
68	Woodworkers.....	10	30	36	9	28	12
	TRANSPORTATION.....	571	1,521	560	421	36	621
1	Barnmen.....	76	260	87	25	42	115
2	Carriage washers.....	12	29	10	.....	9	18
3	Coachmen.....	26	59	17	1	51	30
4	Conductors.....	5	5	1	.....	33	4
5	Drivers.....	124	329	79	21	45	71
6	Elevator men.....	32	133	20	45	31	66
7	Engine wiper.....	.....	1	.....	.....	7	.....
8	Hostlers.....	12	58	11	.....	15	39
9	Motormen.....	1	.....	2	1	.....	.....
10	Section men.....	.....	5	.....	.....	14	5
11	Teamsters.....	272	622	324	326	32	264
12	Trainmen.....	1	7	1	2	13	8
13	Truckmen.....	10	13	8	.....	14	1
	MISCELLANEOUS.....	920	3,718	859	274	65	1,545
1	Apprentices.....	1	52	.....	3	53	7
2	Bakers' helpers.....	.....	1	.....	.....	6	1
3	Bill posters.....	.....	1	.....	.....	3	1
4	Blacksmiths' helpers.....	1	17	.....	1	30	13
5	Boilermakers' helpers.....	.....	1	.....	.....	2	.....
6	Bootblacks.....	.....	4	.....	1	2	2
7	Boys.....	.....	463	.....	1	152	19
8	Boys, bell.....	.....	35	.....	.....	36	18
9	Boys, bus.....	.....	2	.....	.....	15	1
10	Boys, elevator.....	.....	3	.....	.....	3	.....

Table 12—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single.	Number of dependent children.			
	MISCELLANEOUS— <i>Concluded.</i>						
11	Boys, errand		87			14	8
12	Boys, factory		79			9	
13	Cleaners, harness	3	17			21	15
14	Factory hands	414	1,522	315	93	44	544
15	Fillers		2			5	
16	Flour packers		1			12	
17	Foremen	2	3			7	5
18	Furnace tenders		1			2	
19	Janitors	110	262	109	121	47	168
20	Linemen		1			12	
21	Massage workers		2			4	2
22	Meat cutters	2		11		9	
23	Mechanics	1				7	1
24	Merchants	1				14	1
25	Models		2			22	2
26	Office help	15	56	10		39	25
27	Oilers	2	3	1		5	4
28	Pin setters		25			3	8
29	Stovemmen	1	4			15	
30	Supers.	1	25			11	22
31	Ushers	1	19			6	19
32	Watchmen	81	51	123	8	143	43
33	Weighmen	1		4		18	
34	Wholesale men	1	15		2	8	1
35	Window washers	125	382	126	19	26	180
36	Wood cutters		3			14	3
37	Yardmen	101	218	103	2	25	161
38	Not classified	56	359	57	23		271
	FEMALES	14,096	3,820	10,276	3,299	6	2,011
	North Side Office		1,319	2,746	877	8	412
	South Side Office		909	4,757	1,155	9	1,271
	West Side Office		1,093	1,338	1,099	10	228
	Peoria Office		499	1,435	168	6	100
	CLERICAL		14	288	11	47	42
1	Bookkeepers		4	28	1	42	5
2	Office work		8	146	9	58	26
3	Stenographers		2	114	1	35	11
	COMMERCIAL		21	160	6	28	32
1	Addressers			11		6	
2	Bottle labelers			11		6	
3	Canvassers		6		3	9	
4	Cashiers		5	30	2	37	8
5	Circular folders			11		4	
6	Clerks		7	49	1	44	11
7	Collectors		1	4		12	
8	Demonstrators		2	6		23	5
9	Distributors			7		6	
10	Saleswomen			24		33	7
11	Telephone girls			6		7	1
12	Wrappers			1			
	DOMESTIC SERVICE		3,640	8,793	3,194	17	1,816
1	Chambermaids		154	866	104	17	203
2	Cooks		317	754	213	10	262
3	Day workers		691	146	913	13	26

Table 12—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single.	Number of dependent children.			
	DOMESTIC SERVICE—Concluded.						
4	Diningroom help.....	35	269	20	.....	18	58
5	Dishwashers.....	464	538	369	.....	16	50
6	Domestics.....	111	287	42	.....	8	57
7	General housework.....	433	3,513	167	.....	15	358
8	Hall girls.....	.....	13	.....	.....	3	4
9	Hotel help.....	4	6	1	.....	1	1
10	Housekeepers.....	202	117	77	.....	40	141
11	Kitchen help.....	353	595	312	.....	22	226
12	Laundresses.....	116	266	127	.....	20	87
13	Linen room girls.....	.....	6	.....	.....	.....	2
14	Nurse girls.....	.....	26	.....	.....	3	.....
15	Pantry work.....	33	146	4	.....	22	19
16	Pastry cooks.....	1	1	.....	.....	5	1
17	Reception service.....	.....	3	.....	.....	6	.....
18	Scrub women.....	638	290	798	.....	18	74
19	Second work.....	3	331	.....	.....	13	40
20	Silver girls.....	.....	4	.....	.....	3	.....
21	Vegetable cleaners.....	.....	6	.....	.....	3	.....
22	Waitresses.....	67	609	41	.....	16	206
23	Washer women.....	7	1	6	.....	2	.....
	PERSONAL SERVICE.....	6	12	2	.....	14	7
1	Attendants.....	1	1	.....	.....	5	.....
2	Companions.....	1	7	.....	.....	18	4
3	Lady's maids.....	1	3	.....	.....	16	2
4	Matrons.....	3	1	2	.....	7	1
	PROFESSIONAL.....	37	150	15	.....	26	50
1	Governesses.....	.....	2	.....	.....	5	2
2	Nurses.....	36	146	15	.....	23	46
3	Teachers.....	1	2	.....	.....	250	2
	TRADES.....	18	101	21	.....	31	7
1	Bindery girls.....	.....	1	.....	.....	.....	1
2	Dressmakers.....	.....	1	.....	.....	7	.....
3	Seamstresses.....	18	98	21	.....	32	6
4	Tailoresses.....	.....	1	.....	.....	9	.....
	MISCELLANEOUS.....	84	772	50	.....	38	57
1	Agents.....	2	4	2	.....	6	.....
2	Factory work.....	40	729	32	.....	30	46
3	Janitresses.....	16	5	13	.....	17	.....
4	Not stated.....	26	34	3	.....	148	11

From the reading in detail of the foregoing table much information may be derived by those interested in social economics. The following summary is presented:

TABLE 13—*Summary of the Conjugal Conditions, Members of Trade Unions, Days Idle, and Number Willing to Accept Work Out of the City, with Percentages.*

Sex and Classification of Occupations.	Number of occupations in each class.	Totals.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average number of days idle.	Number willing to work out of city.
			Number married.	Number single.	Number of dependent children.			
Males.....	171	29,414	6,511	22,903	6,889	2,335	8	14,938
Females.....	53	14,096	3,520	10,276	3,299	.....	6	2,011
Percentages—males.....	.....	.....	22.14	77.86	.....	7.94	.....	50.79
Percentages—females.....	.....	.....	27.10	72.90	.....	.....	.....	14.27
MALES—								
Agricultural.....	6	1,162	265	887	289	15	37	935
Clerical.....	13	430	125	305	176	34	30	229
Commercial.....	14	607	97	510	102	19	38	132
Domestic service.....	11	4,554	740	3,814	710	386	28	2,159
Manual labor.....	3	13,548	2,818	10,730	3,046	514	29	8,333
Professional.....	5	31	10	21	16	.....	26	23
Trades.....	68	2,362	965	1,397	1,131	672	33	962
Transportation.....	13	2,092	571	1,521	560	421	36	621
Miscellaneous.....	38	4,638	920	3,718	859	274	65	1,545
FEMALES—								
Clerical.....	3	302	14	288	11	.....	47	42
Commercial.....	12	181	21	160	6	.....	28	32
Domestic service.....	23	12,433	3,640	8,793	3,194	.....	17	1,816
Personal service.....	4	18	6	12	2	.....	14	7
Professional.....	3	187	37	150	15	.....	26	50
Trades.....	4	119	18	101	21	.....	31	7
Miscellaneous.....	4	856	84	772	50	.....	38	57

Of the 29,414 males, 6,511 or 22 per cent were married, having 6.88 dependant children, a fraction over one child to each man; 2,335 or 8 per cent are reported as belonging to trade unions, this is nearly three times as many as were reported last year.

The average number of days of idleness is eight, which is over one-fifth given for last year; 14,938 or 51 per cent registered as willing to accept positions outside of the cities.

As to the females, it is found that of the 14,095 registered as seeking employment, 3,820 or 27 per cent were married, having 3,299 dependant children; this is less than one child to each woman. The average time of idleness to each was six days; the number willing to accept work outside of the cities was 2,011 or 14 per cent. It is quite remarkable to note the approximate proportion of the married and single of both males and females.

TABLE 14—*Nationality of all*

Number.	Classification of Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	MALES.....	14,152	216	343	467	286	898	247	4,264
	North Side Office.....	1,765	3	14	12	98	337	40	1,070
	South Side Office.....	3,946	169	258	379	143	402	165	2,073
	West Side Office.....	3,652	29	69	73	45	145	25	963
	Peoria Office.....	4,789	15	2	3	.....	14	17	159
	AGRICULTURAL.....	487	14	28	36	15	65	3	163
1	Dairymen.....	3	.....	.....	.....	.....	.....	.....	.....
2	Farm hands.....	346	14	14	21	15	45	1	105
3	Florists.....	4	.....	.....	2	.....	1	1	5
4	Gardeners.....	15	.....	2	3	.....	2	.....	9
5	Harvest hands.....	12	.....	.....	.....	.....	.....	.....	.....
6	Stockmen.....	107	.....	12	10	.....	17	1	43
	CLERICAL.....	251	1	4	19	3	27	3	58
1	Bookkeepers.....	38	.....	.....	3	.....	6	.....	7
2	Clerks, bill.....	3	.....	.....	.....	.....	.....	.....	.....
3	Clerks, drug.....	5	.....	.....	.....	1	.....	.....	1
4	Clerks, dry goods.....	13	.....	.....	.....	.....	.....	.....	2
5	Clerks, general.....	85	1	4	8	2	11	2	3t
6	Clerks, grocery.....	22	.....	.....	2	.....	4	.....	7
7	Clerks, hotel.....	8	.....	.....	.....	.....	1	.....	.....
8	Clerks, office.....	4	.....	.....	2	.....	2	.....	3
9	Clerks, shipping.....	48	.....	.....	4	.....	3	1	7
10	Clerks, stock.....	3	.....	.....	.....	.....	.....	.....	.....
11	Stenographers.....	18	.....	.....	.....	.....	.....	.....	.....
12	Stockkeepers.....	2	.....	.....	.....	.....	.....	.....	.....
13	Timekeepers.....	2	.....	.....	.....	.....	.....	.....	.....
	COMMERCIAL.....	460	.....	2	23	1	27	3	28
1	Agents.....	13	.....	.....	7	1	6	1	.....
2	Boys, cash.....	28	.....	.....	3	.....	2	.....	3
3	Boys, delivery.....	156	.....	2	6	.....	4	.....	5
4	Boys, office.....	75	.....	.....	3	.....	3	.....	4
5	Canvassers.....	21	.....	.....	.....	.....	2	.....	3
6	Cashiers.....	1	.....	.....	.....	.....	.....	.....	1
7	Checkers.....	3	.....	.....	.....	.....	1	.....	.....
8	Collectors.....	34	.....	.....	.....	.....	.....	.....	4
9	Distributors.....	18	.....	.....	1	.....	2	.....	1
10	Doormen.....	1	.....	.....	.....	.....	.....	.....	1
11	Draughtsmen.....	1	.....	.....	.....	.....	.....	.....	.....
12	Salesmen.....	68	.....	.....	2	.....	4	2	4
13	Samplers.....	1	.....	.....	.....	.....	.....	.....	.....
14	Solicitors.....	40	.....	.....	1	.....	3	.....	2

NATIONALITY.

The following table presents the nationality of all applicants by classified occupations.

Applicants for Employment—Males.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
2,753	477	651	275	114	342	355	1,730	156	143	740	585	29,414	
902	58	62	19	12	12	3	545	4	1	695	367	6,019	
1,209	357	416	120	42	326	253	1,116	126	137	.....	198	11,835	
634	55	171	134	51	3	95	240	22	5	40	20	6,470	
8	7	2	2	9	1	4	49	4	.....	5	.....	5,090	
85		35	4	1	54	29	87	15	2	.....	29	1,152	
35		21	3	1	37	14	61	15	1	.....	19	4	1
1							3	.....	.....	.....	.....	768	2
5		1	.....	.....	.....	.....	6	.....	.....	.....	2	17	3
.....												45	4
44		13	1	.....	17	15	17	.....	1	.....	8	12	5
.....												306	6
15	1	5	.....	.....	1	13	19	.....	4	.....	6	430	
2						4	4	.....	1	.....	1	66	1
.....												3	2
.....												7	3
11	1	3	.....	.....	1	7	6	.....	3	.....	4	15	4
.....							3	.....	.....	.....	.....	180	5
1		1	.....	.....	.....	.....	2	.....	.....	.....	.....	34	6
1						2	4	.....	.....	.....	.....	9	7
.....												15	8
.....											1	71	9
.....												3	10
.....												18	11
.....		1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	12
.....												3	13
24				2	.....	17	17	.....	1	.....	2	607	
4						2	1	.....	.....	.....	.....	35	1
4						3	4	.....	.....	.....	.....	47	2
6						6	7	.....	1	.....	.....	193	3
4						2	.....	.....	.....	.....	.....	91	4
.....												26	5
1												3	6
.....												4	7
2							2	.....	.....	.....	1	43	8
1						1	.....	.....	.....	.....	.....	24	9
1												3	10
.....												2	11
1				1	.....	2	2	.....	.....	.....	1	86	12
.....												1	13
.....				1	.....	1	1	.....	.....	.....	.....	49	14

Continued.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
188	44	81	53	17	70	49	396	75	42	2	139	4,554	
1		1				1	1					2	1
18	3	7	2	1	11	8	18	4	14		25	16	2
20	15	38	18	13	22	14	109	37	12		24	487	3
76	1	15	16	1	11	14	96	16	13		32	815	4
23	2	6	3	1	7	1	37	2	1		6	900	5
							1				2	276	6
												14	7
												8	8
35	22	14	14	1	16	9	99	15	2	1	81	1,337	9
16	1				3	2	35			1	19	690	10
													11
1,790	373	342	145	63	111	127	793	49	52	722	251	13,548	
5			2	2			3					31	1
1,283	93	178	109	45	49	90	589	25	20	722	211	10,533	2
502	280	164	34	16	62	37	201	24	32		40	2,984	3
	2						1					31	
	2											7	1
							1					1	2
												9	3
												9	4
												5	5
120	7	48	15	5	24	40	139	6	14	2	23	2,362	
			1			2	4				1	61	1
												5	2
6											1	44	3
		2				5	1					22	4
23		14		1	12	2	17		1		6	149	5
1							1					38	6
							2					3	7
			2									11	8
												8	9
2												3	10
1												4	11
2		2			1				1		1	39	12
							1					11	13
							2					6	14
												1	15
7		9	1	1	3	3	19		1		4	306	16
												2	17
				1								2	18
2			2	2		9	10		10			88	19
												7	20
2												31	21
4												11	22
			2				4					56	23
	1					1	4		1			47	24
		2				3	1	4			2	114	25
3		5	1			7	4				2	209	26
20												10	27
1												2	28
		2				1	2					19	29
												1	30
2			1				3				1	31	31
												25	32
												1	33
		1				2	4					89	34
3												91	35
6	1	8	3			2	9	1		1	2	337	36
							1					2	37

Table 14—

Number.	Classification of Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	TRADES—Concluded.								
38	Metal workers	1							2
39	Millers	2							
40	Millwrights	3							
41	Molders	25					2		3
42	Packers	45		1	4		3	1	17
43	Painters	59			1	7	13	1	26
44	Paper cutters	1							
45	Paper hangers	4					1		1
46	Pattern makers	1							
47	Photographers	3							
48	Pipe fitters	1							
49	Plano makers	2							
50	Plasterers	1							
51	Plumbers	4							
52	Polishers, metal	3		1					3
53	Polishers, not stated	2							2
54	Pressers	1							
55	Pressmen	6							
56	Printers	6							2
57	Punch press hands	8							
58	Roofers	3					1		1
59	Sawyers	1							
60	Shoemakers	1		1			1		3
61	Steamfitters	11							2
62	Tailors	1						1	5
63	Telegraphers	1							
64	Tinsmiths	6	1				2		3
65	Toolmakers			2					1
66	Upholsterers	4							5
67	Weavers	2							
68	Woodworkers	26		1		10		1	1
	TRANSPORTATION	1,123	6	4	39	8	99	3	274
1	Barnmen	167	4	2	12	2	21	2	31
2	Carriage washers	22			2	1	3		4
3	Coachmen	45					14		9
4	Conductors	8							
5	Drivers	278			3	2	8		42
6	Elevator men	76			9	1	4	1	20
7	Engine wipers	1							
8	Hostlers	36	1	1			1		12
9	Motormen	1							
10	Section men								2
11	Teamsters	463	1	1	13	2	47		151
12	Trainmen	8							
13	Truckmen	18					1		3
	MISCELLANEOUS	2,438	26	64	75	43	178	47	661
1	Apprentices	45							2
2	Baker's helpers								1
3	Bill posters	1							
4	Blacksmith helpers	7			2		1		5
5	Rollermaker's helpers	1							
6	Bootblacks	1					1		
7	Boys	233		1			5		65
8	Boys, bell	25			2		1		3
9	Boys, bus	2							
10	Boys, elevator	3							
11	Boys, errand	52		3	4		3		7
12	Boys, factory	79							
13	Cleaners, harness	5	1	1	2		1		2
14	Factory hands	1,090	18	21	14	26	77	34	266
15	Filers	2							
16	Flour packers	1							
17	Foremen	3			1				
18	Furnace tenders								
19	Janitors	159	1	3	3	2	22	3	60

Continued.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
3												1	38
2												4	39
23	5				5	2	21	1		1	1	33	40
						1	20					103	41
												162	42
												1	43
												6	44
												1	45
												3	46
												1	47
												2	48
												1	49
			1									4	50
												8	51
												4	52
												1	53
												6	54
												9	55
		1					1					10	56
2												7	57
												1	58
1												6	59
							2					14	60
												9	61
2							3					1	62
												17	63
		2	1				1					15	64
												2	65
							1					40	66
													67
													68
222	3	20	2	7	8	34	157	4	16	6	57	2,092	
27		4		3	7	12	10	3	11	5	13	336	1
2		2				1	2		1		1	41	2
4		4					7				2	85	3
2												10	4
81		2		1	1	2	21	1			11	453	5
2	2	2	1			13	29		4		1	165	6
												1	7
4		2				2	10				1	70	8
												1	9
		2					1					5	10
100		2	1	3		4	77			1	28	894	11
												8	12
	1											23	13
308	47	121	45	19	74	46	341	7	12	8	78	4,638	
				2		1	3					53	1
												1	2
												1	3
2							1					18	4
												1	5
	2											4	6
63		2		2			78			1	13	463	7
3							1					35	8
												2	9
												3	10
7						7	4					87	11
												79	12
1		3			2		2					20	13
130	7	46	28	7	16	16	87	4	4	2	43	1,936	14
												2	15
		1										1	16
												5	17
												1	18
6		17	4	4	14	3	57	1	1	2	10	372	19

Table 14—

Number.	Classification of Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	MISCELLANEOUS—Concluded.								
20	Linemen.....	1							
21	Massage workers.....	1							
22	Meatcutters.....	1							1
23	Mechanics.....	1							
24	Merchants.....	1							
25	Models.....	1	1						
26	Office help.....	60			1	1			5
27	Oilers.....	4							1
28	Pinsetters.....	23							1
29	Stovemmen.....	5							
30	Supers.....	14				4		1	4
31	Ushers.....	19							1
32	Watchmen.....	55			3		6	1	21
33	Weighmen.....								1
34	Wholesalemen.....	10	2				1		
35	Window washers.....	138		15	17		31	2	119
36	Wood cutters.....				3				
37	Yardmen.....	133		17	16	4	19	3	45
38	Not classified.....	261	3	3	6	6	10	3	51

Females.

	FEMALES.....	5,576	37	279	157	95	207	75	1,991
	North Side Office.....	1,156		16	13	40	110	7	606
	South Side Office.....	1,112	37	234	95	35	85	52	1,067
	West Side Office.....	1,490		29	49	14	10	13	262
	Peoria Office.....	1,818				3	2	3	56
	CLERICAL.....	256			8		10	2	11
1	Bookkeepers.....	27			1				3
2	Office work.....	121			7		8		5
3	Stenographers.....	108					2	2	3
	COMMERCIAL.....	164			4		2	3	6
1	Addressers.....	11							
2	Bottle labelers.....	11							
3	Canvassers.....	5			1				
4	Cashiers.....	29			1			1	4
5	Circular folders.....	11							
6	Clerks.....	51			1		1		2
7	Collectors.....	5							
8	Demonstrators.....	7						1	
9	Distributors.....	7							
10	Saleswomen.....	21					1	1	
11	Telephone girls.....	6							
12	Wrappers.....				1				
	DOMESTIC SERVICE.....	4,286	37	262	142	90	175	63	1,892
1	Chambermaids.....	417	1	4	11	3	12	2	205
2	Cooks.....	339	1	8	11	2	38	15	178
3	Dayworkers.....	234		18	6	11	16	2	118
4	Dining room help.....	221				2	5		24
5	Dishwashers.....	249	4	117	5	19	6		181
6	Domestics.....	156		7	9	10	2	3	65
7	General housework.....	1,340	16	41	27	21	26	16	590
8	Hall girls.....	2					3	3	1

Continued.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
							1					1	20
							1					2	21
												2	22
												1	23
												1	24
												2	25
1		1		1							1	71	26
												5	27
	1											25	28
												5	29
							2					26	30
												20	31
17	1	2	2		2	6	11	1	1		3	132	32
												1	33
2							1					16	34
30	29	19	2	2	21	6	80				6	507	35
334												3	36
29	7	18	2	1	19	2	16		4	1	2	319	37
		12	7			5	7	1	2	2		415	38

Females.

2,470	22	433	155	13	202	138	1,663	37	24	16	506	14,096	
1,081	5	99	16	4	28	32	576	1	1	13	262	4,065	
1,026	14	249	116	8	171	84	1,024	33	19		202	5,666	
334	3	86	23	1	3	18	47	2	2	8	42	2,431	
29						4	16	1	2			1,934	
5						6	2			1	1	302	
										1		32	1
4						6	2				1	154	2
1												116	3
						1					1	181	
												11	1
												11	2
												6	3
												35	4
												11	5
											1	56	6
												5	7
												8	8
												7	9
						1						24	10
												6	11
												1	12
2,425	19	407	139	13	201	126	1,591	36	24	14	492	12,433	
126		37	5	1	11	13	137	1	3	4	27	1,020	1
243	4	30	3	1	12	14	128	2	4		38	1,071	2
260	4	26	8	3	19	2	74	1	3		32	837	3
28		5				8	6		1		4	304	4
171	3	20	19	3	17	6	131	14	1	2	34	1,002	5
81		27	4		3	6	14			1	11	893	6
722	3	129	29	3	88	25	661	16	6		197	3,956	7
3							1					13	8

Table 14—

Number.	Classification of Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	DOMESTIC SERVICE—Concluded.								
9	Hotel help.....	10	.....	.....	.....	.....	.....	.....	.....
10	Housekeepers.....	190	.....	2	7	2	8	1	29
11	Kitchen help.....	178	4	19	5	11	13	2	172
12	Laundresses.....	126	.....	5	14	.....	4	1	67
13	Linen room girls.....	2	.....	.....	.....	3	.....	.....	.....
14	Nurse girls.....	26	.....	.....	.....	.....	.....	.....	.....
15	Pantry work.....	68	.....	1	6	.....	12	4	20
16	Pastry cooks.....	2	.....	.....	.....	.....	.....	.....	.....
17	Reception service.....	3	.....	.....	.....	.....	.....	.....	.....
18	Scrubwomen.....	174	11	31	10	4	5	3	175
19	Second work.....	160	.....	.....	10	.....	12	2	24
20	Silver girls.....	4	.....	.....	.....	.....	.....	.....	.....
21	Vegetable cleaners.....	6	.....	.....	.....	.....	.....	.....	.....
22	Waitresses.....	372	.....	9	22	2	13	9	42
23	Washerwomen.....	7	.....	.....	.....	.....	.....	.....	1
	PERSONAL SERVICE.....	17	.....	1	.....	.....	.....	.....	.....
1	Attendants.....	2	.....	.....	.....	.....	.....	.....	.....
2	Companions.....	8	.....	.....	.....	.....	.....	.....	.....
3	Lady's maids.....	3	.....	1	.....	.....	.....	.....	.....
4	Matrons.....	4	.....	.....	.....	.....	.....	.....	.....
	PROFESSIONAL.....	90	.....	2	2	2	11	3	24
1	Governess.....	1	.....	.....	.....	.....	1	.....	.....
2	Nurses.....	96	.....	2	2	2	10	3	24
3	Teachers.....	3	.....	.....	.....	.....	.....	.....	.....
	TRADES.....	101	.....	.....	.....	1	2	4	6
1	Bindery girls.....	1	.....	.....	.....	.....	.....	.....	.....
2	Dressmakers.....	.....	.....	.....	.....	.....	.....	.....	1
3	Seamstresses.....	99	.....	.....	.....	1	2	4	5
4	Tailloresses.....	1	.....	.....	.....	.....	.....	.....	.....
	MISCELLANEOUS.....	662	.....	14	1	2	7	.....	52
1	Agents.....	4	.....	.....	.....	.....	1	.....	1
2	Factory work.....	599	.....	13	1	2	6	.....	47
3	Janitresses.....	10	.....	.....	.....	.....	.....	.....	4
4	Not stated.....	49	.....	1	.....	.....	.....	.....	.....

Concluded.

[illegible]

This table is recapitulated by occupations and presented in the

TABLE 15—*Summary of the Nationality of all*

Sex and Classification of Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
Males	14,152	216	343	477	286	898	247	4,265
Females	5,576	37	279	157	95	207	75	1,991
Percentages—Males	50.38	.77	1.22	1.69	1.02	3.20	.88	15.18
Percentages—Females	41.08	.27	2.05	1.16	.70	1.52	.55	14.67
MALES—								
Agricultural	487	14	28	36	15	65	3	163
Clerical	251	1	4	19	3	27	3	58
Commercial.....	460	.....	2	23	1	27	3	28
Domestic Service	2,062	55	56	94	81	157	106	787
Manual labor	6,038	105	155	150	109	232	64	1,877
Professional	17	.....	.....	1	.....	5	3	2
Trades	1,276	9	30	40	26	108	15	415
Transportation	1,123	6	4	39	8	99	3	274
Miscellaneous	2,438	26	64	75	43	178	47	661
FEMALES—								
Clerical	256	.....	.....	8	.....	10	2	11
Commercial.....	164	.....	.....	4	.....	2	3	6
Domestic service	4,286	37	262	142	90	175	63	1,892
Personal service	17	.....	1	.....	.....	.....	.....	.....
Professional	90	.....	2	2	2	11	3	24
Trades	101	.....	.....	.....	1	2	4	6
Miscellaneous	662	.....	14	1	2	7	.....	52

Referring to the males, it is shown that of the total number (29,414) 740 are classed as miscellaneous, and 558 as not reported, or a total of 1,325 which deducted from the total gives 28,089 divided among the 18 different nationalities represented.

Four of the nationalities account for 82.30 per cent of the total number: Americans 50.38 per cent; Germans and Hollanders 15.18 per cent; Irish 9.80 per cent; and Swedes 6.94 per cent; this leaves 17.70 per cent represented by the 14 other classes.

Regarding the females, 16 are classed as miscellaneous, and 506 not reported, a total of 522; deducting this number gives 13,574 distributed among the 18 nationalities.

following table:

Applicants for Employment, by Classified Occupations.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.
2,752	477	652	264	114	312	355	1,950	156	143	740	585	29,414
2,470	22	433	155	13	202	138	1,663	37	24	16	506	14,096
9.80	1.70	2.32	.94	.41	1.22	1.26	6.94	.56	.51	.....	.....	.....
18.20	.16	3.19	1.14	.10	1.49	1.02	12.25	.27	.18	.....	.....	.....
85	.....	35	4	1	54	29	87	15	2	.....	29	1,152
15	1	5	.....	.....	1	13	19	.....	4	.....	6	430
24	.....	.....	.....	2	.....	17	17	.....	1	.....	2	607
189	44	81	53	17	70	49	396	75	42	2	139	4,554
1,790	373	342	145	63	111	127	793	49	52	722	251	13,548
.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	31
120	7	48	15	5	24	40	139	6	14	2	23	2,362
222	3	20	2	7	8	34	157	4	16	6	57	2,092
308	47	121	45	19	74	46	341	7	12	8	78	4,638
5	.....	.....	.....	.....	.....	6	2	.....	.....	1	1	302
.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	181
2,425	19	407	138	13	201	126	1,591	36	24	14	492	12,433
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18
15	.....	6	1	.....	1	4	24	.....	.....	.....	2	187
.....	.....	2	.....	.....	.....	.....	2	.....	.....	.....	1	119
25	3	18	16	.....	.....	1	44	1	.....	1	9	856

Here also four of the nationalities account for a large proportion of the total number; Americans, 41.08 per cent; Irish, 18.20 per cent; Germans and Hollanders, 14.67 per cent, and Swedes 12.25 per cent, in all 86.20 per cent.

It will be noticed that the females seeking domestic service represent a very large proportion in this table, the number registering their nationality being 11,927 or 87.87 per cent of the total.

Of this large number the Americans are 4,236 or 35.94 per cent; Irish, 20.33 per cent; Germans and Hollanders, 15.86 per cent; Swedes, 13.34 per cent, aggregating a total of 10,194 or 85.47 per cent.

The reports of the superintendents follow:

REPORTS
OF THE
SUPERINTENDENTS

FIFTH ANNUAL REPORT OF THE NORTH SIDE ILLINOIS FREE
EMPLOYMENT OFFICE. 259 AND 261 NORTH CLARK
STREET, CHICAGO—1903.

(D. M. BROTHERS, Superintendent.)

HON. DAVID ROSS, *Secretary Bureau of Labor Statistics, Springfield, Illinois:*

SIR—In compliance with section 6 of the law establishing free employment offices, I beg to submit the fifth annual report of the business of this office, covering the period from Oct. 1, 1902, to Sept. 30, 1903, together with the expense account for the same period.

Since the removal of this office to the present location, which is much better than that formerly occupied, the inviting appearance apparently commending itself to the general public, which is demonstrated by the fact that orders are now and have been coming in since our removal, from parties who formerly did not know of the existence of the office. The great advantage of its location for advertising purposes is essentially valuable.

While the business of the last year on a whole has increased numerically in no small amount, the value and character of the applicants and positions, with reference to higher grade and permanency, is still more marked. Applications for help and positions arrive from nearly every state in the Union, and it is very noticeable at this season of the year that nearly 50 per cent of our applicants for work have just arrived in the city, coming from California, Indiana, New York and other distant states. It is not to be wondered at that many people are out of employment during the winter season in Chicago, when one sees the great number of people who flock here from all over the country, expecting to secure remunerative positions.

I believe it necessary to continue advertising through mediums which reach employers; it is easy enough to get applicants for positions, but more difficult to get employers to place their orders. It is, however, gratifying to report that many of the largest employers of labor are now seeking their help through these offices, and they seem to be recognized as permanent and useful departments of the State.

Respectfully submitted,

D. M. BROTHERS, *Superintendent.*

*Statement of Expenses of the North Side Free Employment Office,
from Oct. 1, 1902, to Sept. 30, 1902.*

Office rent.....	\$850 00	City directory.....	7 00
Telephone and toll service.....	201 56	Clerk hire.....	199 98
Ice.....	15 25	Expenses of trips to Springfield of superintendent.....	120 50
Mineral water.....	24 00	New furniture and linoleum and moving.....	405 66
Stenographer's services.....	630 00	New partitions, carpenter work and painting.....	311 72
Janitor service.....	375 00	Time clock service.....	12 50
Toilet supplies.....	24 00	Rental of typewriter and desk.....	48 00
Gas.....	103 22		
Miscellaneous sundries.....	104 42	Total.....	\$4,107 60
Postage and expressage.....	174 75		
Advertising.....	441 19		
Insurance.....	18 00		
Plumbing and repairing.....	40 85		

*Annual Report of the Chicago North Side Free Employment Office,
to the State Bureau of Labor Statistics, for the Year Ended Oct.
1, 1903—Applications for Employment and Help, Positions Se-
cured, and the Number Remaining Unfilled.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of posi- tions se- cured.	Number unfilled.	Number filed.	Number unfilled.
Males						
1	Bakers.....	2	1	1	1	
2	Barnmen.....	63	57	6	69	12
3	Bartenders.....	12	8	4	9	1
4	Bench hands.....	1	1		1	
5	Blacksmiths.....	106	105	1	128	23
6	Boilermakers.....	5		5	8	8
7	Bookkeepers.....	2		2		
8	Boys—various occupations.....	392	375	17	564	189
9	Butchers.....	2	2		2	
10	Butlers.....	3	2	1	4	2
11	Canvassers.....	10	10		36	26
12	Carpenters.....	178	172	6	213	41
13	Carriage and wagon washers.....	2	1	1	2	1
14	Clerks—various occupations.....	56	27	29	31	4
15	Coachmen.....	31	25	6	32	7
16	Coal miners.....				50	60
17	Collectors.....	2	1	1	1	
18	Cooks.....	57	37	20	62	25
19	Conductors.....	5	5		5	
20	Coremakers.....	11	11		18	7
21	Dishwashers.....	50	44	6	55	11
22	Drill pressmen.....	5	5		5	
23	Drivers.....	315	312	3	384	72
24	Elevatormen.....	13	10	3	12	2
25	Engineers.....	15	8	7	10	2
26	Factory hands.....	650	618	32	754	136

North Side Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of posi- tions se- cured.	Number unfilled.	Number filed.	Number unfilled.
27	Farm hands.....	99	84	15	116	32
28	Firemen.....	13	8	5	8	3
29	Gardeners.....	3		3	3	3
30	Glass workers.....				3	3
31	Harness makers.....				5	5
32	Housemen.....	235	206	29	245	39
33	Ironworkers.....	1		1		
34	Janitors.....	55	45	10	61	16
35	Kitchen work.....	48	38	10	51	13
36	Laborers.....	2,453	2,415	38	3,303	888
37	Lathe hands.....	4	4		4	
38	Laundrymen.....	2	2		3	1
39	Machine hands.....	3	1	2	2	1
40	Machinists.....	164	153	11	199	46
41	Millwrights.....				1	1
42	Molders.....				16	16
43	Motormen.....	1	1		2	1
44	Office help.....	4	1	3	2	1
45	Packers.....	29	26	3	32	6
46	Painters.....	82	78	4	108	30
47	Pantrymen.....	3	3		4	1
48	Plumbers.....	1		1	1	1
49	Polishers—not stated.....	1		1		
50	Porters.....	150	137	13	147	10
51	Pressers.....	1		1	1	1
52	Printers.....	1	1		1	
53	Salesmen.....	1		1		
54	Shoemakers.....	1		1		
55	Solicitors.....	3	2	1		2
56	Steamfitters.....	1	1		2	1
57	Stenographers.....	2	1	1	2	1
58	Stock men.....	13	12	1	15	3
59	Tailors.....	1		1		
60	Teamsters.....	419	415	4	543	128
61	Waiters.....	26	21	5	28	7
62	Watchmen.....	12	7	5	11	4
63	Window washers.....	151	151		205	54
64	Wood workers.....	23	23		32	9
65	Yardmen.....	3	3		4	1
66	Miscellaneous, not classified.....	22	16	6	28	12
Total—males.....		6,019	5,692	327	7,648	1,956
Positions secured, previous applica- tions.....			191	191		191
Total for year.....		6,019	5,883	136	7,648	1,765
Females.						
1	Bookkeepers.....	7	2	5	4	2
2	Canvassors.....				5	5
3	Cashiers.....	2		2	1	1
4	Clerks.....	18	12	6	14	2
5	Chambermaids.....	278	257	21	336	79
6	Companions.....	2		2	1	1
7	Cooks.....	321	302	19	410	114
8	Dayworkers.....	412	401	11	414	13
9	Dining room help.....	122	113	9	216	103
10	Dishwashers.....	259	277	12	393	56
11	Factory work.....	94	80	14	259	179
12	General housework.....	1,612	1,574	38	2,049	475
13	Housekeepers.....	67	49	18	71	22
14	Janitresses.....	8	8		8	
15	Kitchen help.....	313	301	12	393	92
16	Laundresses.....	47	36	11	70	34
17	Matrons.....	2	1	1	2	1
18	Nurses.....	72	53	14	88	30
19	Office work.....	10	4	6	7	3

North Side Office—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of posi- tions se- cured.	Number unfiled.	Number filed.	Number unfiled.
20	Pantry work.....	27	23	4	30	7
21	Saleswomen.....	6	5	1	5	.....
22	Scrubwomen.....	100	89	11	145	56
23	Seamstresses.....	19	11	8	57	46
24	Second work.....	153	132	21	181	49
25	Stenographers.....	11	2	9	5	3
26	Teachers, not stated.....	.....	.....	.....	1	1
27	Waitresses.....	66	54	12	136	82
28	Miscellaneous, occupation not stated..	7	5	2	13	8
	Total—females.....	4,065	3,796	269	5,254	1,464
	Positions secured, previous applica- tions.....	.....	169	169	.....	169
	Total for year.....	4,065	3,965	100	5,254	1,295

FIFTH ANNUAL REPORT OF THE SOUTH SIDE ILLINOIS FREE
EMPLOYMENT OFFICE, 429 WABASH AVENUE, CHICAGO—1903.

(GEORGE W. GEARY, Superintendent.)

HON. DAVID ROSS, *Secretary Bureau of Labor Statistics, Springfield, Illinois:*

SIR—Complying with section six of the act of the General Assembly creating the Illinois Free Employment offices, I herewith submit the fifth annual report of the business of the South Side Office for the year ending Sept. 30, 1903, together with the expense of maintaining the office for the same period.

The great benefit conferred upon employers of labor and those seeking employment, through this office, can hardly be compiled in figures. When you consider the necessity of getting reliable help when you need it, or when you procure a position, whereby you are enabled to sustain yourself and family without cost, this great benefit can not be told, excepting from the numerous letters that we receive, testifying to the gratitude of the writers as to the benefits of these offices to the general public.

The press still manifest a very friendly feeling towards these offices, which adds materially to their success.

Very respectfully,

GEO. W. GEARY, *Superintendent.*

*Statement of the Expenses of the South Side Office from Oct. 1,
1902, to Sept. 30, 1903.*

Salary of male clerk.....	\$875 00	Ice	18 30
Salary of female clerk	720 00	Advertising	400 00
Salary of stenographer	630 00	Postage and expressage.....	300 00
Salary of janitor.....	420 00	Office furniture, repairs and clean-	
Rent of office.....	995 00	ing.....	174 00
Telephone and toll service.....	82 00	Office supplies and sundries.....	202 40
Telegraph service.....	17 90		
Light and power.....	57 49	Total.....	\$4,292 09

*Annual Report of the Chicago South Side Free Employment Office
to the State Bureau of Labor Statistics, for the year ending
Oct. 1, 1903—Applications for Employment and Help, Positions
Secured, and the Number Remaining Unfilled.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number posi- tions secured.	Number unfilled.	Number filed.	Number unfilled.
	Males					
1	Agents	32	13	19	18	5
2	Artists.....	7		7		
3	Bakers	30	20	10	21	1
4	Barbers	3	3		8	5
5	Barnmen.....	143	121	22	129	8
6	Bartenders.....	23	12	11	13	1
7	Bench hands	5	4	1	4	
8	Bill posters	1	1		1	
9	Blacksmiths	15	12	3	18	6
10	Blacksmiths' helpers	12	11	1	11	
11	Boller makers.....	14	13	1	23	10
12	Bookbinders.....	2	2		2	
13	Bookkeepers.....	42	6	36	6	
14	Boot blacks	4	4		4	
15	Box makers	11	8	3	8	
16	Boys, bell	31	29	2	40	11
17	Boys, cash	47	43	4	55	12
18	Boys, delivery	98	96	2	103	7
19	Boys, errand	68	60	8	124	64
20	Boys, office.....	38	33	5	70	37
21	Bricklayers.....	3	3		4	1
22	Bridge builders.....	4	4		4	
23	Butchers	23	17	6	19	2
24	Butlers	6	4	2	4	
25	Cabinet makers.....	6	3	3	4	1
26	Calclminers.....	6	5	1	6	
27	Carpet layers	16	15	1	17	2
28	Carpenters	61	51	10	59	8
29	Carriage and wagon makers.....	24	23	1	23	
30	Cashiers.....	3	3		3	

South Side Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number posi- tions secured.	Number unfiled.	Number filed.	Number unfiled.
31	Checkers	3	3	.....	3	.....
32	Cigar makers	2	2	.....	2	.....
33	Cleaners, harness	18	18	.....	22	4
34	Clerks, bill	2	2	.....	4	2
35	Clerks, drug	3	1	2	1	.....
36	Clerks, dry goods	1	.....	1	.....	.....
37	Clerks, grocery	22	7	15	7	.....
38	Clerks, office	15	8	7	9	1
39	Clerks, shipping	27	21	6	21	.....
40	Clerks, not stated	83	10	73	11	1
41	Coachmen	29	21	8	21	.....
42	Coal miners	46	44	2	70	26
43	Collectors	11	4	7	4	.....
44	Cooks	313	267	46	299	32
45	Coopers	5	5	.....	5	.....
46	Core makers	3	3	.....	3	.....
47	Deck hands	11	11	.....	14	3
48	Dishwashers	679	636	43	651	15
49	Doormen	3	2	1	2	.....
50	Distributors	8	7	1	7	.....
51	Drivers	1	1	.....	1	.....
52	Electricians	16	9	7	9	.....
53	Elevatormen	110	78	32	79	1
54	Engineers	45	14	31	16	2
55	Factory hands	382	373	9	468	95
56	Farm hands	368	343	25	488	145
57	Firemen	81	62	19	63	1
58	Florists	16	14	2	14	.....
59	Gardeners	28	24	4	26	2
60	Gas fitters	10	7	3	7	.....
61	Harness makers	17	17	.....	22	5
62	Hostlers	39	35	4	35	.....
63	Housemen	567	520	47	533	13
64	Janitors	216	178	38	180	2
65	Kitchen work	210	199	11	205	6
66	Laborers	1,909	1,868	40	2,240	372
67	Laborers, railroad	2,604	2,537	67	2,740	203
68	Laundrymen	80	69	11	69	.....
69	Machine hands	9	7	2	7	.....
70	Machinists	40	27	13	42	15
71	Massage work	2	.....	2	.....	.....
72	Merchants	1	1	.....	2	1
73	Millers	3	3	.....	3	.....
74	Molders	8	7	1	34	27
75	Models	2	2	.....	2	.....
76	Nurses	6	5	1	6	.....
77	Packers	52	39	13	39	.....
78	Painters	52	51	1	53	2
79	Paper hangers	6	4	2	8	4
80	Pantrymen	8	7	1	7	.....
81	Photographers	1	.....	1	.....	.....
82	Pin setters	25	24	1	24	.....
83	Plumbers .....	.....	.....	.....	3	3
84	Polishers	8	8	.....	17	9
85	Porters	1,001	891	110	912	21
86	Pressmen	2	.....	2	.....	.....
87	Printers	4	3	1	3	.....
88	Roofers	6	6	.....	6	.....
89	Salesmen	23	13	10	29	16
90	Shoe makers	3	3	.....	3	.....
91	Section hands	5	5	.....	5	.....
92	Solicitors	13	12	1	28	16
93	Steam fitters	4	3	1	3	.....
94	Stenographers	11	4	7	5	.....
95	Stockmen	293	272	21	293	21
96	Supers	26	25	1	25	.....
97	Surveyors	9	8	1	8	.....
98	Tailors	8	6	2	6	.....
99	Teachers	5	1	4	1	.....

South Side Office—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
100	Teamsters.....	221	191	30	196	5
101	Telegraphers.....	1	.....	1	1	1
102	Tinsmiths.....	14	12	2	23	11
103	Trainmen.....	8	8	.....	8	.....
104	Ushers.....	20	20	.....	20	.....
105	Upholsterers.....	11	10	1	17	7
106	Waiters.....	611	549	62	584	35
107	Watchmen.....	62	23	39	25	2
108	Window washers.....	247	283	14	250	17
109	Wood choppers.....	3	3	.....	16	13
110	Yardmen.....	241	220	21	222	2
	Totals, males.....	11,835	10,745	1,090	12,087	1,342
	Positions secured, previous applications.....	.....	53	53	.....	53
	Total for year.....	11,835	10,798	1,037	12,087	1,289
	Females.					
1	Agents.....	5	4	1	10	6
2	Bookkeepers.....	4	.....	4	2	2
3	Bindery.....	1	.....	1	.....	.....
4	Cashiers.....	13	5	8	6	1
5	Clerks.....	9	4	5	6	2
6	Chambermaids.....	487	471	16	582	111
7	Cooks.....	520	501	19	660	159
8	Day workers.....	168	168	.....	172	4
9	Demonstrators.....	7	2	5	5	3
10	Dishwashers.....	517	515	2	583	68
11	Factory work.....	187	181	6	260	79
12	General housework.....	1,446	1,333	113	2,433	1,100
13	Governesses.....	1	1	.....	1	.....
14	Hall girls.....	13	12	1	15	3
15	Housekeepers.....	119	69	50	146	77
16	Janitresses.....	4	3	1	3	.....
17	Kitchen help.....	489	489	.....	581	92
18	Lady's maid.....	1	1	.....	2	1
19	Laundresses.....	228	225	3	284	59
20	Linen room help.....	6	4	2	4	.....
21	Nurses.....	62	59	3	75	16
22	Office work.....	75	43	32	49	6
23	Pantry work.....	91	89	2	104	15
24	Reception service.....	3	1	2	2	1
25	Saleswomen.....	5	.....	5	.....	.....
26	Scrubwomen.....	517	505	12	578	73
27	Seamstresses.....	23	18	5	24	6
28	Second work.....	100	100	.....	145	45
29	Solicitors.....	.....	.....	.....	6	6
30	Stenographers.....	43	6	37	7	1
31	Teachers, not stated.....	2	.....	2	.....	.....
32	Waitresses.....	520	515	5	735	220
	Totals, females.....	5,666	5,324	342	7,480	2,156
	Positions secured, previous applications.....	.....	70	70	.....	70
	Total for year.....	5,666	5,394	272	7,480	2,086

FIFTH ANNUAL REPORT OF THE WEST SIDE ILLINOIS FREE
EMPLOYMENT OFFICE, CORNER CANAL AND RANDOLPH
STREETS, CHICAGO—1903.

(S. P. REVERE, Superintendent.)

HON. DAVID ROSS, *Secretary Bureau of Labor Statistics, Springfield, Illinois:*

SIR—In compliance with section six of an act of the General Assembly of the State of Illinois creating the Illinois Free Employment offices, I herewith submit the fifth annual report of the business transacted in this office for the year ended Sept. 30, 1903, together with the expense account for the same period.

The following report will give in detail the work of this office for the time herein stated.

Respectfully submitted,

S. P. REVERE, *Superintendent.*

*Statement of the Expenses of the West Side Illinois Free
Employment Office from Oct. 1, 1902, to Sept. 30, 1903.*

Rent of office.....	\$540 00	Expense of trips to Springfield.....	\$ 90 00
Janitor.....	270 00	Advertising.....	489 60
Stenographer.....	50 00	Postage.....	100 00
Telephone service.....	138 10	Miscellaneous.....	74 80
Ice.....	33 65		
Gas.....	26 18	Total	\$1,827 83
Towel supply.....	16 50		

*Annual Report of the Chicago West Side Free Employment Office,
to the State Bureau of Labor Statistics, for the Year ended Oct.
1, 1903—Applications for Employment and Help, Positions Se-
cured, and the Number Remaining Unfilled.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of posi- tions se- cured.	Number unfilled.	Number filed.	Number unfilled.
	Males.					
1	Agents.....	1	1	1		
2	Apprentices.....	34	4	30	5	1
3	Attendants.....	1	1		1	
4	Bakers.....	5		5		
5	Bakers helpers.....	1	1		1	
6	Barbers.....	1	1		1	
7	Barnmen.....	17	12	5	14	2
8	Bartenders.....	7	2	5	2	
9	Bench hands.....	16	4	12	5	1
10	Blacksmiths.....	13	3	10	3	
11	Blacksmith helpers.....	5	2	3	5	3
12	Boiler makers.....	3	1	2	7	6
13	Bookbinders.....	1		1		
14	Bookkeepers.....	11	2	9	2	
15	Boys.....	62	53	9	68	15
16	Boys, bell.....	4		4		
17	Boys, bus.....	2		2	1	1
18	Boys, delivery.....	2	1	1	1	
19	Boys, errand.....	10	6	4	8	2
20	Boys, office.....	39	6	33	11	5
21	Brass finishers.....	7		7		
22	Butchers.....	7		7		
23	Cabinet makers.....	1		1		
24	Carpenters.....	29	10	19	15	5
25	Carriage and wagon washers.....	15	14	1	16	2
26	Checkers.....	2		2		
27	Circular distributors.....	2		2		
28	Cleaners, harness.....	2	2		2	
29	Clerks, bill.....	1		1		
30	Clerks, drug.....				1	1
31	Clerks, dry goods.....	1		1		
32	Clerks, grocery.....	14	5	9	5	
33	Clerks, hotel.....	8		8		

West Side Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of posi- tions se- cured.	Number unfiled	Number filed.	Number unfiled.
34	Clerks, shipping	43	1	42	1	.....
35	Clerks, not stated	41	1	40	2	1
36	Coachmen	10	6	5	6	1
37	Coal miners	8	6	2	6	.....
38	Coal passers	31	24	7	24	.....
39	Collectors	11	.....	11	.....	.....
40	Compositors	2	.....	2	.....	.....
41	Cooks	27	14	13	23	9
42	Coopers	2	.....	2	.....	.....
43	Conductors	2	.....	2	.....	.....
44	Core makers	16	1	15	13	12
45	Dishwashers	33	23	10	30	7
46	Draughtsmen	2	.....	2	.....	.....
47	Drill pressmen	39	1	38	1	.....
48	Drivers	113	47	66	56	9
49	Druggists	1	.....	1	.....	.....
50	Electricians	29	.....	29	.....	.....
51	Elevatormen	42	7	35	7	.....
52	Employés, wholesale house	16	.....	16	.....	.....
53	Engineers	30	4	26	7	3
54	Factory hands	698	485	213	530	45
55	Farm hands	179	125	54	173	48
56	Firemen	67	19	48	20	1
57	Foremen	5	1	4	1	.....
58	Furnace tenders	1	.....	1	1	1
59	Gardeners	5	1	4	2	1
60	Glass workers .....	.....	.....	.....	1	1
61	Horseshoers	1	.....	1	.....	.....
62	Hostlers	28	23	5	28	5
63	Housemen	54	27	27	34	7
64	Ironworkers	20	14	6	15	1
65	Janitors	56	20	36	26	6
66	Kitchenwork	3	1	2	1	.....
67	Laborers	3,310	3,052	258	3,409	356
68	Laborers, railroad	3	.....	3	.....	.....
69	Lathe hands	19	3	16	3	.....
70	Lathers	1	.....	1	.....	.....
71	Laundrymen	2	1	1	1	.....
72	Machine hands	79	9	70	10	1
73	Machinists	96	22	74	32	10
74	Masons	1	.....	1	.....	.....
75	Mechanics	1	.....	1	.....	.....
76	Metal workers	1	.....	1	.....	.....
77	Millwrights	1	.....	1	.....	.....
78	Molders	9	5	4	32	27
79	Nurses	3	.....	3	.....	.....
80	Office help	43	2	41	2	.....
81	Oilers	5	.....	5	.....	.....
82	Packers	22	2	20	4	2
83	Painters	16	6	10	9	3
84	Pantrymen	1	1	.....	1	.....
85	Paper cutters	1	.....	1	1	1
86	Pattern makers	1	.....	1	.....	.....
87	Photographers	2	.....	2	.....	.....
88	Piano makers	2	.....	2	.....	.....
89	Plasterers	1	.....	1	.....	.....
90	Plumbers	1	.....	1	.....	.....
91	Polishers, not stated	3	.....	3	.....	.....
92	Porters	126	59	37	104	15
93	Pressers	1	.....	1	.....	.....
94	Pressmen	3	2	1	3	1
95	Printers	2	.....	2	.....	.....
96	Punch press hands	10	.....	10	.....	.....
97	Roofers	1	.....	1	.....	.....
98	Salesmen	21	.....	21	.....	.....
99	Sawyers	1	.....	1	.....	.....
100	Shoemakers	2	.....	2	.....	.....
101	Solicitors	3	2	1	6	4
102	Steamfitters	3	.....	3	.....	.....

West Side Office—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of positions secured.	Number unfilled.	Number filed.	Number unfilled.
103	Stenographers	2	.....	2	.....	.....
104	Stockkeepers	2	.....	2	.....	.....
105	Stone masons	1	.....	1	.....	.....
106	Stovemmen	1	1	.....	1	.....
107	Teamsters	112	76	36	78	2
108	Timekeepers	3	.....	3	.....	.....
109	Tinsmiths	1	.....	1	.....	.....
110	Toolmakers	1	.....	1	.....	.....
111	Truckmen	9	2	7	4	2
112	Upholsterers	1	.....	1	1	1
113	Waiters	35	27	8	32	6
114	Watchmen	45	7	38	7	.....
115	Weighmen	1	.....	1	.....	.....
116	Window washers	109	89	20	117	28
117	Woodworkers	6	.....	6	3	3
118	Yardmen	13	12	1	14	2
119	Miscellaneous, not classified	393	194	199	323	129
Total males		6,470	4,584	1,886	5,379	795
Positions secured, previous applications .....		.....	417	417	.....	417
Grand total		6,470	5,001	1,469	5,379	378
Females.						
1	Addressers	11	10	1	25	15
2	Barbers .....	.....	.....	.....	1	1
3	Bookkeepers	3	.....	3	.....	.....
4	Bottle labelers	11	11	.....	15	14
5	Canvassers	5	5	.....	15	10
6	Cashiers	12	.....	12	.....	.....
7	Clerks	17	4	13	6	2
8	Chambermaids	200	170	30	190	20
9	Companions	1	.....	1	.....	.....
10	Cooks	137	89	48	125	36
11	Day workers	171	40	131	43	3
12	Demonstrators	1	.....	1	.....	.....
13	Dining room help	78	67	11	80	13
14	Dishwashers	96	79	16	96	16
15	Domestics	398	386	12	879	493
16	Dressmakers	1	.....	1	.....	.....
17	Factory work	408	373	35	500	127
18	Folders, circulars	11	11	.....	15	4
19	Governesses	1	.....	1	.....	.....
20	Housekeepers	70	26	44	43	17
21	Janitresses	1	.....	1	.....	.....
22	Kitchen help	103	103	.....	120	17
23	Lady's maid	1	.....	1	.....	.....
24	Laundresses	77	69	8	89	20
25	Matrons	1	.....	1	.....	.....
26	Nurses	30	19	11	28	9
27	Office work	10	.....	10	.....	.....
28	Pantry work	50	38	12	40	2
29	Scrubwomen	308	308	.....	330	22
30	Seamstresses	51	35	16	53	18
31	Second work	15	10	5	26	16
32	Stenographers	9	1	8	2	1
33	Teachers, not stated	1	.....	1	.....	.....
34	Waitresses	89	89	.....	125	36
35	Wrappers	1	1	.....	1	.....
36	Miscellaneous, occupation not stated ..	53	50	3	128	78
Total females		2,431	1,994	437	2,974	980
Positions secured, previous applications .....		.....	18	18	.....	18
Grand total		2,431	2,012	419	2,974	962

THIRD ANNUAL REPORT OF THE PEORIA ILLINOIS FREE
EMPLOYMENT OFFICE, 1903.

[Edward E. Walker, Superintendent.]

HON. DAVID ROSS, *Secretary Bureau of Labor Statistics, Springfield, Ill.*

SIR—Complying with section six of an act of the General Assembly relating to Illinois Free Employment offices, I herewith submit the third annual report of the business of this office, together with an itemized expense account for the year ending Oct. 1, 1903.

This report will differ very little from that of last year, showing a slight increase in the number of positions secured and applications filed for help. It has been impossible to secure the necessary help to fill the applications filed.

It is gratifying to know that the work of this office has met with favorable commendation from the public. The number of employers who are patronizing this office is steadily increasing, showing that a public employment office in this city should be a permanent institution.

The following report will show in detail the work of this office.

Respectfully submitted,

EDWARD E. WALKER,
Superintendent.

Statement of the Expenses of the Peoria, Illinois Free Employment Office at Peoria, for the Year ending Oct. 1, 1903.

Rent of office.....	\$695 00	Telegraph and messenger service .	\$19 57
Stenographer	630 00	Distributing employment office re-	
Advertising	311 68	ports.....	7 50
Telephone and toll service.....	119 08	Towel supply	13 20
Extra office work	105 00	City directory.....	5 00
Postage and express.....	77 55	Sign painting and lettering.....	22 25
Furniture.....	139 30	Miscellaneous.....	158 39
Janitor service and cleaning offices	39 20		
Ice.....	21 00		\$2,386 08
Electric light and supplies	22 36		

Annual Report of the Peoria Free Employment Office, to the State Bureau of Labor Statistics, for the Year ended Oct. 1, 1903—Applications for Employment and Help, Positions Secured and the Number Remaining Unfilled.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		APPLICATIONS FOR HELP.		
		Number filed.	Number of posi- tions se- cured.	Number unfiled.	Number filed.	Number unfiled.
Males.						
1	Agents	2	2	.....	2	.....
2	Apprentices.....	19	17	2	17	.....
3	Attendants.....	1	1	.....	1	.....
4	Bakers	24	13	11	13	.....
5	Barbers.....	1	.....	1	.....	.....
6	Barnmen.....	113	109	4	109	.....
7	Bartenders.....	2	2	.....	2	.....
8	Blacksmiths.....	15	7	8	7	.....
9	Blacksmith helpers.....	1	1	.....	1	.....
10	Boiler makers.....	16	14	2	14	.....
11	Boiler maker helpers.....	1	.....	1	.....	.....
12	Bookkeepers	11	1	10	1	.....
13	Boys.....	9	8	1	8	.....
14	Boys, factory.....	79	72	7	72	.....
15	Boys, delivery.....	93	78	15	78	.....
16	Boys, errand.....	9	7	2	7	.....
17	Boys, office.....	14	12	2	12	.....
18	Boys, elevator.....	3	3	.....	3	.....
19	Brass finishers.....	1	1	.....	1	.....
20	Butchers	7	6	1	6	.....
21	Cabinet makers.....	4	3	1	3	.....
22	Candy makers.....	1	1	.....	1	.....
23	Canvassers.....	16	16	.....	16	.....
24	Carpenters.....	38	12	26	12	.....
25	Carriage painters.....	2	2	.....	3	1
26	Clerks, drug.....	4	2	2	2	.....
27	Clerks, dry goods.....	13	7	6	7	.....
28	Clerks, grocery.....	2	1	1	1	.....
29	Clerks, hotel.....	1	1	.....	1	.....
30	Clerks, shipping.....	1	.....	1	.....	.....
31	Clerks, stock.....	3	2	1	2	.....

Peoria Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number posi- tions secured.	Number unfiled.	Number filed.	Number unfiled.
32	Coachmen.....	15	8	7	8	.....
33	Coal miners.....	34	32	2	32	.....
34	Collectors.....	19	7	12	7	.....
35	Cooks.....	90	66	24	66	.....
36	Conductors, street car.....	3	3	.....	5	2
37	Core makers.....	1	1	.....	1	.....
38	Dairymen.....	4	4	.....	5	1
39	Dishwashers.....	53	50	3	50	.....
40	Distributors.....	14	14	.....	14	.....
41	Drill pressmen.....	12	11	1	11	.....
42	Drivers.....	24	18	6	18	.....
43	Electricians.....	2	2	.....	2	.....
44	Engineers.....	24	9	15	9	.....
45	Engine wipers.....	1	1	.....	1	.....
46	Factory hands.....	206	163	43	177	14
47	Farm hands.....	122	110	12	110	.....
48	Filers.....	2	2	.....	2	.....
49	Firemen.....	48	25	23	25	.....
50	Florists.....	1	1	.....	1	.....
51	Flour packers.....	1	.....	1	.....	.....
52	Gardeners.....	9	7	2	8	1
53	Glaziers.....	2	2	.....	2	.....
54	Harness makers.....	2	2	.....	2	.....
55	Harvest hands.....	12	12	.....	12	.....
56	Hostlers.....	3	3	.....	3	.....
57	Housemen.....	44	35	9	35	.....
58	Iron workers.....	10	10	.....	12	2
59	Janitors.....	45	31	14	31	.....
60	Kitchenwork.....	15	12	3	31	.....
61	Laborers.....	2,862	2,839	23	2,954	115
62	Laborers, railroad.....	377	376	1	388	12
63	Lathe hands.....	2	1	1	1	.....
64	Laundrymen.....	5	3	2	3	.....
65	Linemen, not stated.....	1	.....	1	.....	.....
66	Machinists.....	37	21	16	23	2
67	Meat cutters and slaughterers.....	2	.....	2	.....	.....
68	Millers.....	1	1	.....	1	.....
69	Millwrights.....	2	2	.....	2	.....
70	Molders.....	16	9	7	9	.....
71	Office help.....	24	5	19	5	.....
72	Painters.....	12	9	3	10	1
73	Pantrymen.....	2	2	.....	2	.....
74	Pan washers.....	8	5	3	5	.....
75	Pipe fitters.....	1	.....	1	.....	.....
76	Plumbers.....	2	.....	2	.....	.....
77	Porters.....	60	52	8	52	.....
78	Salesmen.....	41	16	25	16	.....
79	Samplers.....	1	1	.....	1	.....
80	Solicitors.....	30	28	2	29	1
81	Steam fitters.....	6	4	2	4	.....
82	Stenographers.....	3	1	2	1	.....
83	Stovemmen.....	4	3	1	3	.....
84	Teamsters.....	142	131	11	137	6
85	Tinsmiths.....	2	.....	2	.....	.....
86	Truckmen.....	14	14	.....	14	.....
87	Upholsterers.....	3	3	.....	3	.....
88	Waiters.....	18	11	7	11	.....
89	Watchmen.....	13	2	11	2	.....
90	Weavers.....	2	2	.....	4	2
91	Wood workers.....	11	9	2	9	.....
	Yardmen.....	62	61	1	61	.....
Total males.....		5,090	4,653	437	4,832	179
Females.....						
1	Agents.....	1	2	.....	3	1
2	Attendants.....	2	2	.....	4	2
3	Bookkeepers.....	18	3	15	3	.....

Peoria Office—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		APPLICATIONS FOR HELP.		
		Number filed.	Number posi- tions secured.	Number unfiled.	Number filed.	Number unfiled.
4	Canvassers.....	1	.....	1	1	1
5	Cashiers.....	8	7	1	9	2
6	Clerks.....	12	4	8	6	2
7	Collectors.....	5	2	3	2	.....
8	Chambermaids.....	55	42	13	51	9
9	Companions.....	5	3	2	3	.....
10	Cooks.....	93	83	10	134	51
11	Day workers.....	86	28	58	28	.....
12	Diningroom help.....	104	88	16	123	35
13	Dishwashers.....	101	79	22	92	13
14	Distributors.....	7	4	3	4	.....
15	Factory work.....	80	41	39	49	8
16	General housework.....	898	860	38	1,058	198
17	Hotel help.....	10	6	4	7	1
18	Housekeepers.....	63	33	30	46	13
19	Janitresses.....	8	4	4	4	.....
20	Kitchen help.....	43	42	1	59	17
21	Lady's maid.....	2	2	.....	2	.....
22	Laundresses.....	30	21	9	26	5
23	Matrons.....	1	.....	1	.....	.....
24	Nurses.....	18	10	8	16	6
25	Nurse girls.....	27	20	7	24	4
26	Office work.....	59	11	48	11	.....
27	Pantry work.....	11	10	1	15	5
28	Pastry cook.....	2	2	.....	2	.....
29	Saleswomen.....	13	8	5	10	2
30	Scrubwomen.....	3	3	.....	10	7
31	Seamstresses.....	23	9	14	14	5
32	Second work.....	66	51	15	60	9
33	Silver girls.....	4	4	.....	6	2
34	Stenographers.....	53	10	43	10	.....
35	Telephone girls.....	6	1	5	1	.....
36	Tailoresses.....	1	.....	1	.....	.....
37	Vegetable cleaners.....	6	6	.....	8	2
38	Waitresses.....	1	1	.....	1	.....
39	Washerwomen.....	8	3	5	3	.....
Total females.....		1,934	1,505	429	1,905	400
Positions secured, applications previ- ously filed.....		.....	16	16	.....	16
Grand total.....		1,934	1,521	413	1,905	384

FREE EMPLOYMENT OFFICES IN CERTAIN CITIES. AND PRIVATE
EMPLOYMENT AGENCIES IN ALL CITIES.

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| <p>§ 1. Creation of offices in certain cities—purpose—name.</p> <p>§ 2. Officers—how appointed—salaries.</p> <p>§ 3. Duties of superintendent—registers—special registers not open to inspection.</p> <p>§ 4. Reports to Bureau of Labor Statistics—circulation of reports.</p> <p>§ 5. Correspondence with employers of labor—advertising.</p> <p>§ 6. Annual reports—collection of statistics.</p> <p>§ 7. No fee to be charged—penalty for accepting fee.</p> | <p>§ 8. "Applicant for employment" and "applicant for help" defined.</p> <p>§ 9. Private agencies to be licensed—license fee—bond—restriction as to name and sign—register—registration fee.</p> <p>§ 10. Commissioners of Labor to enforce act—prosecution of violations—penalty.</p> <p>§ 11. Private employment agency defined.</p> <p>§ 12. Disposition of fees and fines.</p> <p>§ 13. Printing, blanks, supplies, etc., to be furnished by Secretary of State.</p> <p>§ 14. Repeal.</p> <p>§ 15. Emergency.</p> |
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AN ACT relating to employment offices and agencies.

SECTION 1. *Be it enacted by the People of the State of Illinois, represented in the General Assembly:* That free employment offices are hereby created as follows: One in each city of not less than fifty thousand population, and three in each city containing a population of one million or over, for the purpose of receiving applications of persons seeking employment, and applications of persons seeking to employ labor. Such offices shall be designated and known as Illinois Free Employment Offices.

§ 2. Within sixty days after this act shall have been in force, the State Board of Commissioners of Labor shall recommend, and the Governor, with the advice and consent of the Senate, shall appoint a superintendent and assistant superintendent and a clerk for each of the offices created by section 1 of this act, who shall devote their entire time to the duties of their respective offices. The assistant superintendent or the clerk shall in each case be a woman. The tenure of such appointment shall be two years, unless sooner removed for cause. The salary of each superintendent shall be fifteen hundred (\$1,500) dollars per annum, the salary of such assistant superintendent shall be one thousand two hundred (\$1,200) dollars per annum. The salary of such clerk shall be one thousand (\$1,000) dollars per annum, together with proper amounts for defraying the necessary costs of equipping and maintaining the respective offices.

§ 3. The superintendent of each such free employment office shall, within sixty days after appointment, open an office in such locality as shall have been agreed upon between such superintendent and the secretary of the Bureau of Labor Statistics, as being most appropriate for the purpose intended; such office to be provided with a sufficient number of rooms and apartments to enable him to provide, and he shall so provide, a separate room or apartment for the use of women registering for situations or help. Upon the outside of each such office, in position and manner to secure the fullest public attention, shall be placed a sign which shall read in the English language. Illinois Free Employment Office, and the same shall appear either upon the outside windows or upon signs in such other languages as the location of each such office shall render advisable. The superintendent of each such free employment office shall receive and record in books kept for that purposes [purpose], names of all persons applying for employment or help, designating opposite the names and addresses of each applicant, the character of employment or help desired. Separate registers for applicants for employment shall be kept, showing the age, sex, nativity, trade or occupation of each applicant, the cause and duration of non-employment, whether married or single, the number of dependent children, together with such other facts as may be required by the Bureau of Labor Statistics to be used by said bureau: *Provided*, that no special registers shall be open to public inspection at any time, and that such statistical and sociological data as the Bureau of Labor may require shall be held in confidence by said bureau, and so published as not to reveal the identity of any one: *And, provided further*, that any applicant who shall decline to furnish answers as to the questions contained in special registers shall not thereby forfeit any rights to any employment the office might secure

§ 4. Each such superintendent shall report on Thursday of each week to the State Bureau of Labor Statistics the number of applications for positions and for help received during the preceding week, and the number of positions secured, also those unfilled applications remaining on the books at the beginning of the week. It shall also show the number and character of the positions secured during the preceding week. Upon receipt of these lists, and not later than Saturday of each week, the secretary of the said Bureau of Labor Statistics shall cause to be printed a sheet showing separately, and in combination, the lists received from all such free employment offices.

§ 5. It shall be the duty of each such superintendent of a free employment office to immediately put himself in communication with the principal manufacturers, merchants and other employers of labor, and to use all diligence in securing the coöperation of the said employers of labor with the purposes and objects of said employment offices. To this end it shall be competent for such superintendents to advertise in the columns of newspapers, or other medium, for such situations as he has applicants to fill, and he may advertise in a general way for the coöperation of large contractors and em-

ployers in such trade journals or special publication as reach such employers, whether such trade or special journals are published within the State of Illinois or not.

§ 6. It shall be the duty of each such superintendent to make report to the State Bureau of Labor Statistics annually, not later than December first of each year, concerning the work of his office for the year ending October first of the same year, together with a statement of the expenses of the same, including the charges of an interpreter when necessary, and such report shall be published by the said Bureau of Labor Statistics annually with its coal report. Each such superintendent shall also perform such other duties in the collection of statistics of labor as the secretary of the Bureau of Labor Statistics may require.

§ 7. No fee or compensation shall be charged or received, directly or indirectly, from persons applying for employment or help through said free employment offices, and any superintendent, assistant superintendent or clerk, who shall accept, directly or indirectly, any fee or compensation from any applicant or from his or her representative, shall be deemed guilty of a misdemeanor, and upon conviction, shall be fined not less than twenty-five nor more than fifty dollars and imprisoned in the county jail not more than thirty days.

§ 8. The term "applicant for employment," as used in this act, shall be construed to mean any person seeking work of any lawful character, and "applicant for help" shall mean any person or persons seeking help in any legitimate enterprise; and nothing in this act shall be construed to limit the meaning of the term work to manual occupation, but it shall include professional service, and all other legitimate service.

PRIVATE EMPLOYMENT AGENCIES.

§ 9. PRIVATE EMPLOYMENT AGENCIES.] No person, firm or corporation in this State shall open, operate or maintain a private employment agency for hire, or where a fee is charged to either applicant for employment or for help, without first obtaining a license for the same from the State Commissioners of Labor. Such license fee, in cities of fifty thousand (50,000) population and over, shall be fifty dollars (\$50) per annum. In all cities containing less than fifty thousand (50,000) population a uniform fee of twenty-five dollars (\$25) per annum will be required. Every license shall contain a designation of the city, street and number of the building in which the licensed party conducts said employment agency. The license together with a copy of this act, shall be posted in a conspicuous place in each and every employment agency. No agency shall print, publish or paint on any sign, window or insert in any newspaper or publication, a name similar to that of the Illinois Free Employment Office. The Commissioners of Labor shall require with each applicant for a license a bond in the penal sum of five hundred dollars (\$500), with one or more sureties, to be approved by the said commissioners, and conditioned that the obligator will not violate any of the duties, terms, conditions, provisions or require-

ments of this act. The said commissioners are authorized to cause an action or actions to be brought on said bond in the name of The People of the State of Illinois for any violation of any of its conditions, and they may also revoke, upon a full hearing, any license, whenever in their judgment, the party licensed shall have violated any of the provisions of this act. It shall be the duty of every licensed agency to keep a register, in which shall be entered the name and address of every applicant. Such licensed agency shall also enter into a register the name and address of every person who shall make application for help or servants; and the name and nature of the employment for which such help shall be wanted. Such register shall, at all reasonable hours, be open to the inspection and examination of the Commissioners of Labor or their agents. Where a registration fee is charged for receiving or filing applications for employment or help, said fee shall in no case exceed the sum of two dollars (\$2), for which a receipt shall be given, in which shall be stated the name of the applicant, the amount of the fee, the date, the name or character of the work or situation to be procured. In case the said applicant shall not obtain a situation or employment through such licensed agency within one month after registration as aforesaid, then said licensed agency shall forthwith repay and return to such applicant, upon demand being made therefor, the full amount of the fee paid or delivered by said applicant to said licensed agency, provided that such demand be made within thirty (30) days after the expiration of the period aforesaid. No agency shall send or cause to be sent any female help or servants to any place of bad repute, house of ill-fame or assignation house, or to any house or place of amusement kept for immoral purposes. No such licensed agency shall publish or cause to be published any false or fraudulent notice or advertisement, or to give any false information, or to make any false promise concerning or relating to work or employment to anyone who shall register for employment, and no licensed agency shall make any false entries in the register to be kept as herein provided. No person, firm or corporation shall conduct the business of any employment office in, or in connection with, any place where intoxicating liquors are sold.

§ 10. It shall be the duty of the Commissioners of Labor, and the secretary thereof, to enforce this act. When informed of any violation, it shall be their duty to institute criminal proceedings for the enforcement of its penalties before any court of competent jurisdiction. Any person convicted of a violation of the provisions of this act shall be guilty of a misdemeanor and shall be fined not less than fifty dollars (\$50) nor more than one hundred dollars (\$100) for each offense, or by imprisonment in the county jail for a period not exceeding six (6) months, or both, at the discretion of the court.

§ 11. A private employment agency is defined and interpreted to mean any person, firm or corporation furnishing employment or help or giving information as to where employment or help may be secured, or who shall display any employment sign or bulletin, or

through the medium of any card, circular or pamphlet, offering employment or help, shall be deemed an employment agency, and subject to the provisions of this act, whether a fee or commission is charged or not: *Provided*, that charitable organizations are not included.

§ 12. All money or moneys received from fees and fines shall be held by the said Commissioners of Labor, and shall constitute a fund for the purpose of enforcing the provisions of this act; and the said commissioners shall, at the end of each fiscal year, make an account of said fund and pay into the State Treasury whatever balance shall remain after paying the necessary disbursements for the purpose of enforcing the provisions of this act.

§ 13. All printing, blanks, blank books, stationery and such other supplies as may be necessary for the proper conduct of the business of the offices herein created shall be furnished by the Secretary of State upon requisition for the same made by the superintendents of the several offices.

§ 14. All acts and parts of acts in conflict herewith are hereby repealed.

§ 15. Whereas, an emergency exists, therefore this act shall take effect and be in force from and after its passage.

APPROVED May 11, 1903, in force May 11, 1903.

